HAWARDEN SUMMITT
TRACT 26109

OVERLOOK PARKWAY
REVERSE FRONTAGE
LANDSCAPE & IRRIGATION PLAN

PREPARED FOR:

ANDY BODEWIN
HAWARDEN DEVELOPMENT
1739 CRYSTAL RIDGE COURT
RIVERSIDE, CALIFORNIA 92506
(714) 789-1177 FAX: (714) 789-1025

PREPARED BY:

ROGER G. BECK
LAND DESIGN STUDIO
33666 PEQUITO DRIVE
DANA POINT, CA. 92629
(714) 496-1754 FAX: (714) 248-5577

CIVIL ENGINEERING BY:

INTEGRA ENGINEERING, INC.
621 E. CARNEGIE DR. #120
SAN BERNARDINO, CA. 92408
(714) 383-0200 FAX: (714) 383-0203

CONTACT: ROBERT (BERNIE) BERNDT

GENERAL NOTES FOR REVERSE FRONTAGE LANDSCAPING

1. ALL RELATED WORK SHALL CONFORM TO THE CITY OF RIVERSIDE PARK AND RECREATION DEPARTMENT STANDARDS AND CITY OF RIVERSIDE POLICIES.

2. WHEN CALLING FOR INSPECTIONS, CONTACT THE PARK PROJECTS INSPECTOR A MINIMUM OF 48 HOURS IN ADVANCE AT (714) 782-5223 TO SCHEDULE AN INSPECTION. A FIELD NOTICE WILL BE ISSUED AS WRITTEN APPROVAL FOR EACH STAGE OF INSPECTION. A VERBAL APPROVAL WILL NOT BE ACCEPTABLE. INSPECTIONS ARE REQUIRED AT THE FOLLOWING TIMES DURING THE COURSE OF THE PROJECT:
   - A. PRIOR TO COMMENCEMENT OF ANY WORK, FOR THE PURPOSE OF A PRE-CONSTRUCTION MEETING;
   - B. PRIOR TO THE INSTALLATION OF IRRIGATION LINES OR COMPONENTS;
   - C. PRIOR TO POURING CONCRETE FOR INSPECTION OF HARDSCAPE FORMWORK;
   - D. DURING HYDROSTATIC PRESSURE TEST OF IRRIGATION MAINLINE PRIOR TO BACKFILL OR MAIN LINE TRENCH;
   - E. INSPECTION OF LATERAL LINES AND HEADS PRIOR TO BACKFILL OF TRENCHES;
   - F. UPON COMPLETION OF FINE GRADING, BUT PRIOR TO COMMENCEMENT OF SOIL PREPARATION, FOR ACCEPTANCE OF FINE GRADING WORK;
   - G. INSPECTION OF COMPLETED FINISH GRADING WORK AFTER SOIL AMENDMENT WORK;
   - H. UPON COMPLETION OF THE IRRIGATION SYSTEM FOR A COVERAGE TEST AND DEMONSTRATION OF THE SYSTEM AS FULLY OPERATIONAL;
   - I. WHEN PLANT LOCATIONS HAVE BEEN SPOTTED IN THE FIELD BUT PRIOR TO DIGGING PLANT PITS;
   - J. WHILE DIGGING PLANT PITS AND PLANTING/RELOCATING TREES;
   - K. DURING APPLICATION OF PRE-EMERGENT CHEMICAL. PRE-EMERGENT CHEMICAL TREATMENT SHALL BE APPLIED AT THE FOLLOWING TIMES DURING THE CONTRACT:
     - A. BEFORE PLANTING,
     - B. AT THE BEGINNING OF PLANT ESTABLISHMENT PERIOD,
     - C. PERIODICALLY AS NECESSARY DURING THE PLANT ESTABLISHMENT PERIOD,
     - D. AT END OF PLANT ESTABLISHMENT PERIOD;
   - L. AFTER PLANTING AND ALL OTHER INDICATED OR SPECIFIED WORK HAS BEEN COMPLETED, FOR START OF MAINTENANCE;
   - M. AFTER COMPLETION OF THE MAINTENANCE PERIOD.

3. UPON RECEIPT OF WRITTEN ACKNOWLEDGEMENT OF THE CITY'S FINAL ACCEPTANCE, THE DEVELOPER WILL BE RELEASED FROM MAINTENANCE. (UNTIL RECEIPT OF WRITTEN NOTIFICATION FROM THE CITY THAT THE HAWARDEN SUMMITT HOMEOWNERS ASSOCATION IS ASSUMING MAINTENANCE RESPONSIBILITIES, THE DEVELOPER SHALL REMAIN RESPONSIBLE FOR THE PROJECT).

4. THE DEVELOPER SHALL BE RESPONSIBLE TO HAVE ALL PLANTINGS ACCEPTABLY MAINTAINED FOR A MINIMUM PERIOD OF ONE (1) YEAR.

NOTE:
- * ALL WIRES UNDER PAVEMENT SHALL BE INSTALLED IN A SEPARATE SLEEVE FROM PIPING PER CITY OF RIVERSIDE - PARK AND RECREATION DEPARTMENT STANDARDS.
- * ALL PIPING UNDER PAVEMENT SHALL BE INDIVIDUALLY SLEEVED PER CITY OF RIVERSIDE - PARK AND RECREATION DEPARTMENT STANDARDS.
- * IRRIGATION SYSTEMS SHALL BE SPLIT AND VALVED IN A MANNER TO AVOID NON-PRESSURIZED LATERAL LINES UNDER STREETS. ONLY PRESSURE LINES ARE PERMITTED UNDER STREETS.
- * ANGLED FITTINGS ARE NOT ALLOWED IN PIPE OR WIRE SLEEVING.

✳ ALL LANDSCAPE AND IRRIGATION WORK IS TO BE INSPECTED BY THE LANDSCAPE ARCHITECT AND THE PARK AND RECREATION DEPARTMENT AND UPON COMPLETION OF THE PROJECT THE LANDSCAPE ARCHITECT WILL CERTIFY THAT THE WORK HAS BEEN COMPLETED IN ACCORDANCE WITH THE APPROVED PLANS. THE PARK AND RECREATION DEPARTMENT MUST BE CONTACTED BEFORE COMMENCING WORK.

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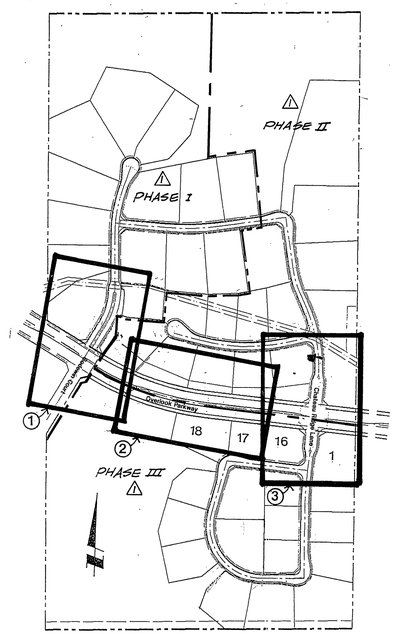
INDEX MAP
NO SCALE



VICINITY MAP
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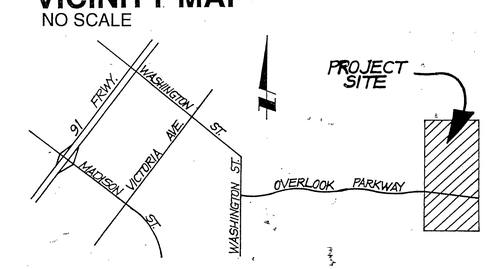


⚠ PHASE I, II & III

4/10/96
Registered Civil Engineer
No. 28248
Exp. 3/31/98
CIVIL
STATE OF CALIFORNIA
FOR REVISION ⚠ ONLY

REGISTERED LANDSCAPE ARCHITECT
ROGER G. BECK LICENSE NO. 2742
Signature
Date
STATE OF CALIFORNIA

LAND DESIGN STUDIO
LANDSCAPE ARCHITECTS
ROGER G. BECK PRESIDENT
33666 PEQUITO DRIVE DANA POINT, CA 92629
(714) 496-1754

SIGNATURE BLOCK

10/21/92 PARKS & REC.	N/A ELECTRIC
8/7/96 WATER	9-20-02 PLANNING

⚠ Phase I only 9-19-96

MARK	REVISIONS	ENGR.	DATE	APPR.	DATE
⚠	ADD PHASING L1-L12	R.Bby	4/10/96		9/19/96

DESIGNED BY ____ DRAWN BY ____ CHECKED BY ____

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	11/10/92	
PARK DEPARTMENT	10/21/92	
TRAFFIC DIVISION		
CHIEF P. W. ENGINEER	11/24/92	
	11/10/92	

APPROVED BY
PUBLIC WORKS DIRECTOR
DATE 11/18/92

REVERSE FRONTAGE AND MEDIAN LANDSCAPE PLAN

TITLE SHEET

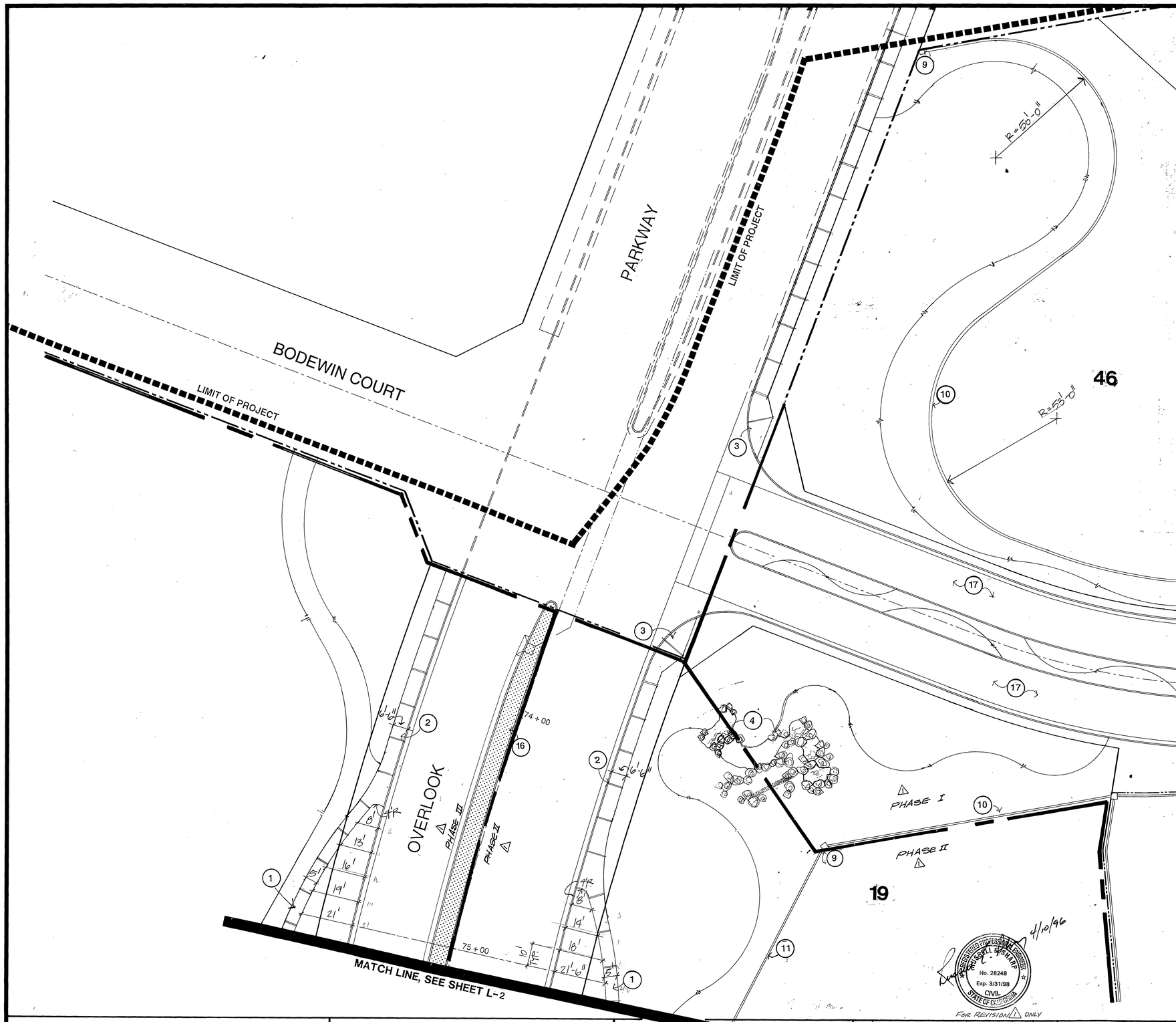
ACCOUNT NO. R3268L
T
SHEET 1 OF 21

HORIZ. SCALE: 1" =
VERT. SCALE: 1" =

PC 3425-R/M

DR-64-912

INDEXED 1-8-97 4H



CONSTRUCTION NOTES:

1. CONSTRUCT 5'-0": WIDE CONCRETE SIDEWALK PER CITY OF RIVERSIDE STANDARD DETAIL #325.
2. CONSTRUCT 6'-0" WIDE CONCRETE SIDEWALK PER CITY OF RIVERSIDE STANDARD DETAIL #325.
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18. CONSTRUCT GUARD GATE HOUSE PER DETAIL 10 SHEET L-19.
    Approved in concept, separate permit required from Building Division
19. CONSTRUCT A.C. PAVEMENT OVER CLASS II (2) BASE PER CITY STANDARD, AND PER SECT 302-5 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION

NOTES:
ENTRY WALLS VENEER ON ONE SIDE ONLY ~~EXCEPT~~ IN CENTER MEDIANS

NOTE:
ALL WALLS TO BE PERMITTED AND INSPECTED BY PUBLIC WORKS DEPART.
NOTE:
WALL TO BE LOCATED ON CENTER OF BERM
PILASTER TO BE CENTERED ON PROPERTY LINE
(LOCATION TO BE PROVIDED BY CIVIL ENGINEER)

REGISTERED LANDSCAPE ARCHITECT
ROGER G. BECK LICENSE NO. 2271
Signature
Date
STATE OF CALIFORNIA

SIGNATURE BLOCK

M. Hutchinson 10-21-92 PARKS & REC.	N/A ELECTRIC
R.S. Dodd 8/7/96 WATER	R.A. Milosevic 9/20/92 PLANNING

REGISTERED PROFESSIONAL ENGINEER
RICHARD S. DODD
No. 28248
Exp. 3/31/98
CIVIL
STATE OF CALIFORNIA
4/10/96

FOR REVISION 1 ONLY

△ PHASE I, II & III

LAND DESIGN STUDIO
LANDSCAPE ARCHITECTS
ROGER G. BECK PRESIDENT
33666 PEQUITO DRIVE DANA POINT, CA 92629
(714) 496-1754

TRACT 26109

MARK	REVISIONS	BY	APPR.	DATE
1	ADD PHASING, REVISE PROPERTY LINE, ADD 12" WL & WATER BRANCH	R.Dodd	LMC	4/10/96

DESIGNED BY RGB DRAWN BY ORP CHECKED BY RGB

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	11/10/92	
PARK DEPARTMENT	10/21/92	
TRAFFIC DIVISION	—	—
CHIEF P. W. ENGINEER	11/10/92	
	11/10/92	

APPROVED BY
PUBLIC WORKS DIRECTOR
DATE 11/18/92

REVERSE FRONTAGE AND MEDIAN LANDSCAPE PLAN
CONSTRUCTION PLAN
HORIZ. SCALE: 1" = 20'-0" VERT. SCALE: 1" =

ACCOUNT NO. R3268L
L1
SHEET 2 OF 21

PC 3425-R/M

DR-64-912 INDEXED 1-8-97 GH

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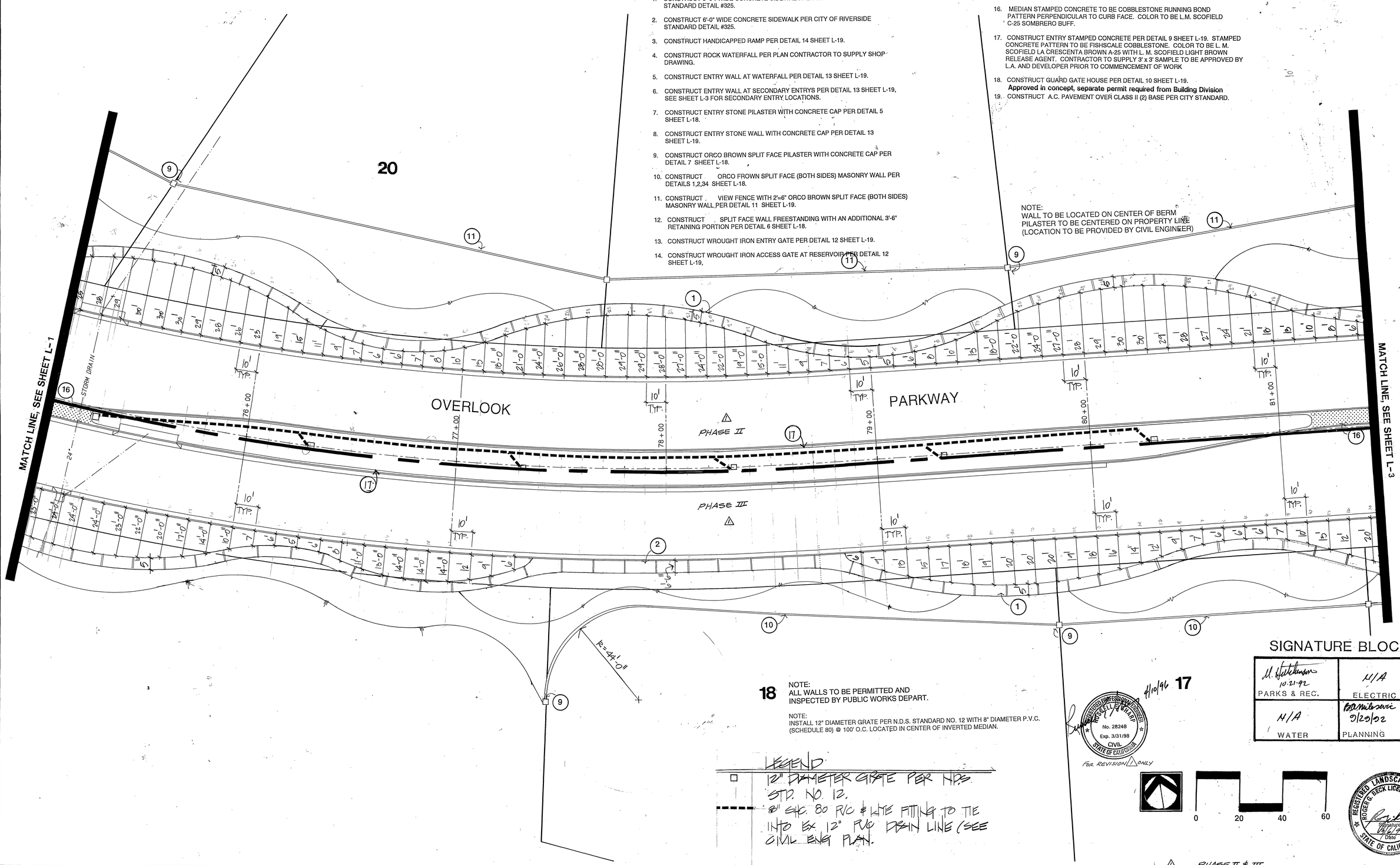


SIGNATURE BLOCK

M. Hutchinson 10-21-92 PARKS & REC.	N/A ELECTRIC
N/A WATER	B. Mikosevic 2/20/92 PLANNING

LAND DESIGN STUDIO
LANDSCAPE ARCHITECTS
ROGER G. BECK PRESIDENT
33666 PEQUITO DRIVE DANA POINT, CA 92629
(714) 496-1754

TRACT 26109

MARK	REVISIONS	ENGR.	DATE	APPR.	DATE
1	ADD PHASING	R. Chang	4-10-96	GWK	4/19/96

DESIGNED BY RGB DRAWN BY SRP CHECKED BY RGB

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	10/10/92	[illegible]
PARK DEPARTMENT	10-21-92	[illegible]
TRAFFIC DIVISION	—	—
CHIEF P. W. ENGINEER	11/16/92	[illegible]
	11/10/92	[illegible]

APPROVED BY
PUBLIC WORKS DIRECTOR
DATE 11/18/92

REVERSE FRONTAGE AND MEDIAN LANDSCAPE PLAN

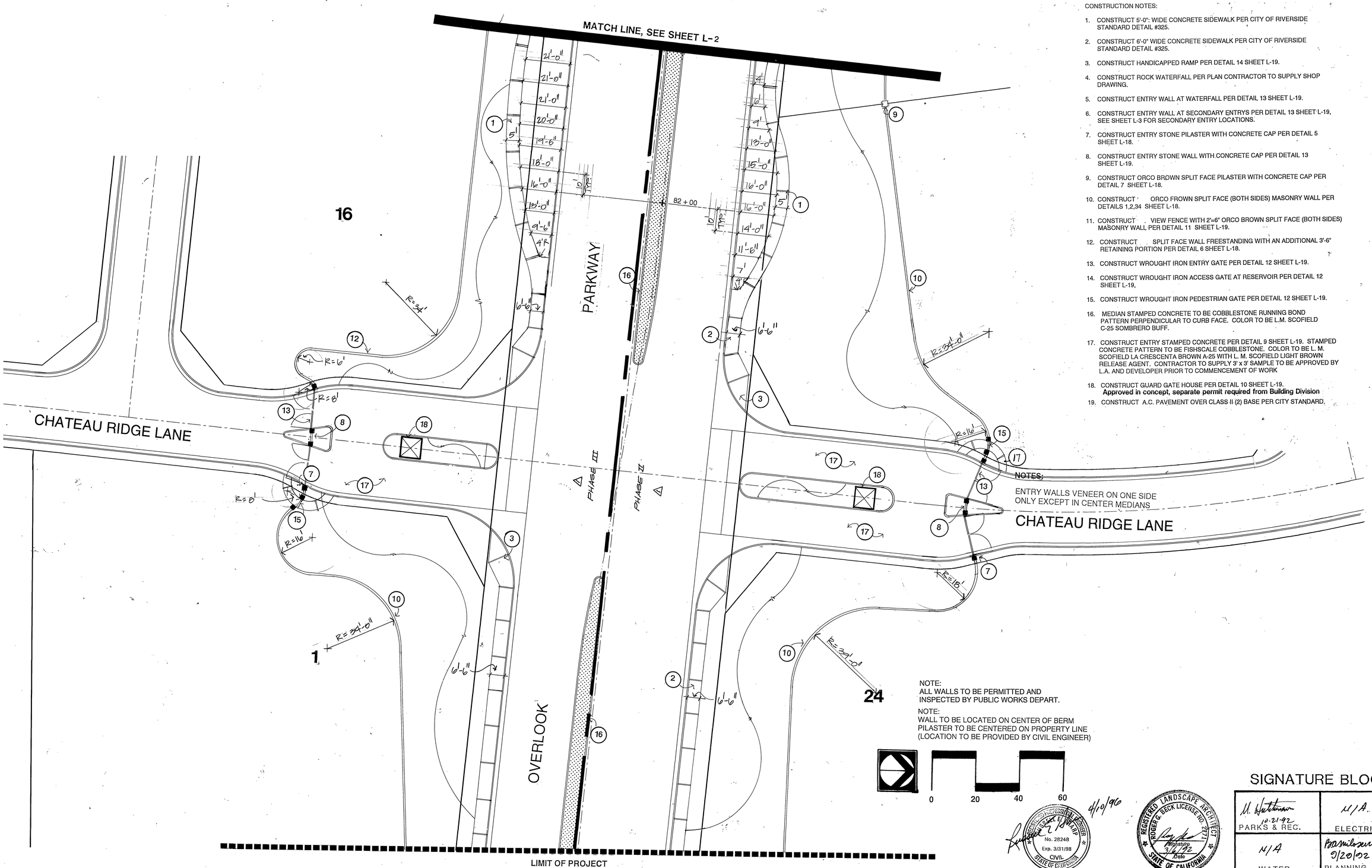
CONSTRUCTION PLAN

HORIZ. SCALE: 1" = 20'-0" VERT. SCALE: 1" =

ACCOUNT NO.
R3268L
L2
SHEET 3 OF 21

PC 3425-R/M

DR-64-912 INDEXED 1-8-97 GH



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REGISTERED PROFESSIONAL ENGINEER No. 28248 Exp. 3/31/98 CIVIL STATE OF CALIFORNIA — 4/10/96

REGISTERED LANDSCAPE ARCHITECT ROGER G. BECK LICENSE NO. 2171 STATE OF CALIFORNIA — Signature 3/6/92 Date

REVISION 1 ONLY

1 PHASE II & III

SIGNATURE BLOCK

M. Hutchinson 10-21-92 PARKS & REC.	N/A ELECTRIC
N/A WATER	Basnilosevic 9/20/92 PLANNING

LAND DESIGN STUDIO
LANDSCAPE ARCHITECTS
ROGER G. BECK PRESIDENT
33666 PEQUITO DRIVE DANA POINT, CA 92629
(714) 496-1754

TRACT 26109

MARK	REVISIONS	ENG'R	DATE	APPR.	DATE
1	ADD PHASING	R. Wang	4-10-96	WW	9/19/96

DESIGNED BY RGB DRAWN BY SRP CHECKED BY

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	11/10/92	
PARK DEPARTMENT	10-21-92	
TRAFFIC DIVISION	—	—
CHIEF P. W. ENGINEER	11/17/92	
	9/19/96	WW

APPROVED BY
PUBLIC WORKS DIRECTOR
DATE 11/18/92

REVERSE FRONTAGE AND MEDIAN LANDSCAPE PLAN

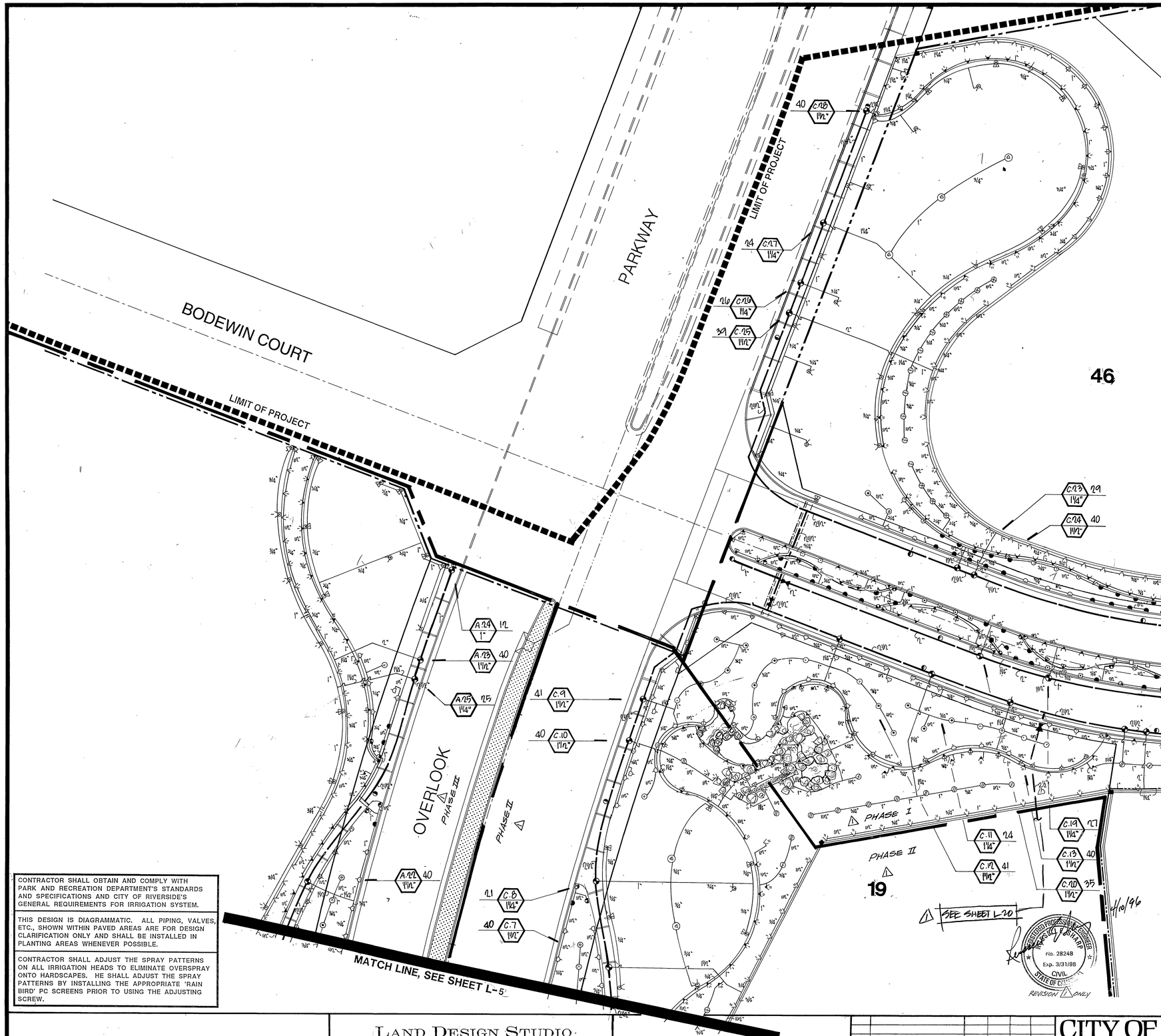
CONSTRUCTION PLAN

HORIZ. SCALE: 1" = 20'-0" VERT. SCALE: 1" =

ACCOUNT NO. R3268L
L3
SHEET 4 OF 21

PC 3425-R/M

DR-64-912 INDEXED 1-8-97



GENERAL NOTES

ALL MAIN LINE PIPING AND CONTROL WIRES UNDER PAVING SHALL BE INSTALLED IN SEPARATE SLEEVES. MAIN LINE SLEEVE SIZE SHALL BE A MINIMUM OF TWICE (2X) THE DIAMETER OF THE PIPE TO BE SLEEVED. CONTROL WIRE SLEEVES SHALL BE OF SUFFICIENT SIZE FOR THE REQUIRED NUMBER OF WIRES UNDER PAVING.

ALL LATERAL LINE PIPING UNDER PAVING SHALL BE PVC SCHEDULE 40 PIPE AND SHALL BE INSTALLED PRIOR TO PAVING.

PIPE SIZES SHALL CONFORM TO THOSE SHOWN ON THE DRAWINGS. NO SUBSTITUTIONS OF SMALLER PIPE SIZES SHALL BE PERMITTED, BUT SUBSTITUTIONS OF LARGER SIZES MAY BE APPROVED. ALL DAMAGED AND REJECTED PIPE SHALL BE REMOVED FROM THE SITE AT THE TIME OF SAID REJECTION.

FINAL LOCATION OF THE AUTOMATIC CONTROLLER SHALL BE APPROVED BY OWNER'S AUTHORIZED REPRESENTATIVE ~~& PARK & REC. INSPECTOR.~~

120 VAC ELECTRICAL POWER SOURCE AT CONTROLLER LOCATION SHALL BE PROVIDED BY OTHERS. THE IRRIGATION CONTRACTOR SHALL MAKE THE FINAL CONNECTION FROM THE ELECTRICAL SOURCE TO THE CONTROLLER.

ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINISH GRADE UNLESS OTHERWISE SPECIFIED.

THE IRRIGATION CONTRACTOR SHALL FLUSH AND ADJUST ALL SPRINKLER HEADS AND VALVES FOR OPTIMUM COVERAGE WITH MINIMAL OVERSPRAY ONTO WALKS, STREETS, WALLS, ETC. THIS SHALL INCLUDE REGULATING THE PRESSURE AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH SYSTEM.

THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC., SHOWN WITHIN PAVED AREAS IS FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHEREVER POSSIBLE. THE CONTRACTOR SHALL LOCATE ALL VALVES IN SHRUB AREAS.

IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, STRUCTURES AND UTILITIES. THE IRRIGATION CONTRACTOR SHALL REPAIR OR REPLACE ALL ITEMS DAMAGED BY HIS WORK. HE SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE SLEEVES AND LATERALS THROUGH WALLS, UNDER ROADWAYS AND PAVING, ETC.

DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.

ALL SPRINKLER EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.

REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILED INFORMATION.

ADV (ANTI-DRAIN VALVES) UNITS AS SHOWN IN THE DETAILS ARE FOR TYPICAL INSTALLATION ONLY, AND MAY NOT BE REQUIRED ON ALL HEADS. PRIOR TO INSTALLATION THE CONTRACTOR SHALL VERIFY WITH THE ON-SITE GRADES. IF THERE IS AN ELEVATION DIFFERENCE OF 24" OR MORE BETWEEN THE HIGHEST HEAD AND LOWEST HEAD ON A SYSTEM, THE ADV'S SHALL BE INSTALLED PER THE DETAIL.

THE CONTRACTOR SHALL VERIFY THE STATIC PRESSURE TO BE AS STATED ON THE SYSTEM REQUIREMENTS.
SHOULD THE STATIC PRESSURE EXCEED 20% OF STATED PRESSURE, INSTALL A 'WILKINS' 600 SERIES PRESSURE REGULATING VALVE (IN A SEPARATE VALVE BOX) DIRECTLY DOWN STREAM OF THE BACKFLOW PREVENTION DEVICE. SET THE REGULATING VALVE AT 10% HIGHER THAN THE STATED SYSTEM REQUIREMENTS. SHOULD THE STATIC PRESSURE BE LESS THAN THE STATED PRESSURE, NOTIFY THE ARCHITECT IMMEDIATELY.

ALL STATED GALLONAGES IN VALVE CALL-OUTS ARE ROUNDED UP TO NEAREST GALLON.

THE SYSTEM IS DESIGNED FOR THE MINIMUM OPERATING PRESSURE AS SHOWN AT EACH POINT OF CONNECTION. THE MAXIMUM DEMAND OF GALLONS PER MINUTE IS AS SPECIFIED. THE IRRIGATION CONTRACTOR SHALL VERIFY THE AVAILABLE WATER PRESSURE ON THE SITE PRIOR TO THE START OF INSTALLATION.

ALL LOW VOLTAGE WIRE FROM CONTROLLER TO VALVES SHALL BE SOLID COPPER UF #14 DIRECT BURIAL TYPE. USE BLACK INSULATED WIRE FOR CONTROL AND WHITE FOR COMMON. INSTALL IN A COMMON TRENCH WITH PRESSURE MAINLINE PIPING WHERE POSSIBLE. BUNDLE AND TAPE TO PIPE AT 10 FOOT INTERVALS.

PROVIDE A MINIMUM OF 18" COVER OVER ALL PRESSURE MAINLINE PIPE AND 12" MIN. COVER OVER ALL NON-PRESSURE LATERAL LINE. ALL PIPE UNDER PAVED AREAS IS TO BE INSTALLED IN PVC SCH. 40 SLEEVE WITH 36" MIN. COVER. SLEEVE LOCATIONS TO BE AS SHOWN ON PLANS AND INSTALLED PER DETAIL.

ALL QUICK COUPLER VALVES ARE TO BE INSTALLED IN SHRUB OR GROUND COVER AREAS WHENEVER POSSIBLE AND WITHIN 18" OF THE HARDSCAPE. ALL QUICK COUPLER VALVES LOCATED IN TURF AREAS SHALL BE INSTALLED IN 8" DIA. GREEN PLASTIC VALVE BOX.

ALL THREADED PIPE CONNECTIONS MADE TO SLIP-JOINT PVC PIPE SHALL BE MADE WITH A PVC THREADED COUPLING. ALL THREADED ADAPTERS AND COUPLINGS ARE TO BE 'DURA' DEEP SOCKET TYPE.

INSTALL ALL SPRAY HEADS WITH NOZZLES OF THE APPROPRIATE DEGREE OF RADIUS FOR THE AREA TO BE COVERED. ADJUST ALL NOZZLES TO ELIMINATE SPRAYING WATER ON BUILDINGS AND HARDSCAPES. ADJUST ALL VALVES FLOW CONTROLS TO PROVIDE OPTIMUM PERFORMANCE.

NOTES:

IRRIGATION LEGEND ON SHEET L-6

IRRIGATION CALCS SEE SHEET L-5

CONTRACTOR SHALL OBTAIN AND COMPLY WITH PARK AND RECREATION DEPARTMENT'S STANDARDS AND SPECIFICATIONS AND CITY OF RIVERSIDE'S GENERAL REQUIREMENTS FOR IRRIGATION SYSTEM.

THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC., SHOWN WITHIN PAVED AREAS ARE FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHENEVER POSSIBLE.

CONTRACTOR SHALL ADJUST THE SPRAY PATTERNS ON ALL IRRIGATION HEADS TO ELIMINATE OVERSPRAY ONTO HARDSCAPES. HE SHALL ADJUST THE SPRAY PATTERNS BY INSTALLING THE APPROPRIATE 'RAIN BIRD' PC SCREENS PRIOR TO USING THE ADJUSTING SCREW.

REGISTERED LANDSCAPE ARCHITECT
ROGER G. BECK LICENSE NO. 2972
Signature
10/8/92
Date
STATE OF CALIFORNIA

SIGNATURE BLOCK

10-21-92 PARKS & REC.	N/A ELECTRIC
8/7/96 WATER	9/29/92 PLANNING

PHASE I, II & III

LAND DESIGN STUDIO
LANDSCAPE ARCHITECTS
ROGER G. BECK PRESIDENT
33666 PEQUITO DRIVE DANA POINT, CA 92629
(714) 496-1754

TRACT 26109

MARK	REVISIONS	BY	DATE	APPR.	DATE
1	ADD PARKING, RELOCATE REDUCE SUPPLY LOCATION	KMay	7-10-95		7/19/96

DESIGNED BY RGB DRAWN BY SRP CHECKED BY RGB

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	11/10/92	
PARK DEPARTMENT	10-21-92	
TRAFFIC DIVISION	—	—
CHIEF P. W. ENGINEER	11/10/92	
	11/10/92	

APPROVED BY
PUBLIC WORKS DIRECTOR
DATE 11/18/92

REVERSE FRONTAGE AND MEDIAN LANDSCAPE PLAN

IRRIGATION PLAN

HORIZ. SCALE: 1" = 20'-0" VERT. SCALE: 1" =

ACCOUNT NO. R3268L
L4
SHEET 5 OF 21

PC 3425-R/M

DR-64-912 INDEXED 1-8-97 GH

CONTROLLERS 'B & C' LOCATION.
CONTRACTOR SHALL INSTALL 'RAIN BIRD' #ISC-32B (CONTROLLER 'B') AND #ISC-32B (CONTROLLER 'C') IN A 'LE MEUR' VANDAL PROOF ENCLOSURE. CONTRACTOR SHALL COORDINATE THE 120 VAC POWER SUPPLY TO THIS LOCATION AND MAKE THE FINAL HOOK-UP. FINAL LOCATION OF THE CONTROLLER TO BE APPROVED BY THE PUBLIC UTILITIES DEPARTMENT.

P.O.C.= POINT OF CONNECTION. CONTRACTOR SHALL RUN A 3" MAINLINE FROM THE 2" DOMESTIC WATER METER TO THE 2" BACKFLOW PREVENTION DEVICE.
FINAL LOCATION OF THE P.O.C. TO BE APPROVED BY PUBLIC UTILITIES DEPARTMENT ~~OR WESTERN MUNISIPAL WATER DISTRICT.~~ △1
STATIC PRESSURE; 72.74 PSI
PEAK DEMAND: 81 GPM
F.G. AT BACKFLOW: 1400'
HIGHEST HEAD ELEV.: 1426'
H.G.L.: 1568, OBTAINED FROM RUSS SHARP WITH 'INTEGRA CIVIL ENG.' AT (714) 383-0200 ON FEB. 20, 1992.

PRESSURE CALCULATION FOR CONTROLLER 'B' VALVE 'B-3' @ 36 GPM + 'C-12' @ 41 GPM = 77 GPM	
HGL (HYDRAULIC GRADE LINE)	1568.00
METER ELEVATION	1400.00
HIGHEST HEAD ELEVATION	1426.00
DOMESTIC IRRIGATION WATER METER (2")	4.50
BACKFLOW PREVENTER (2")	9.00
MAIN LINE PIPE	3.49
LATERAL LINE PIPE	2.10
ELECTRIC REMOTE CONTROL VALVE (1 1/2")	3.00
PRESSURE REQUIRED AT SPRINKLER	20.00
MISC. LOSS (20% OF TOTAL PIPING LOSS)	1.12
ELEVATION (LOSS/GAIN)	11.26
IN-LINE CHECK VALVE (ADV)	5.00
SAFETY FACTOR (10 % OF TOTAL LOSS)	5.95
TOTAL PRESSURE REQUIRED FOR OPERATION	**65.41**
EXISTING WATER PRESSURE AT METER	72.74
RESIDUAL PRESSURE	7.33

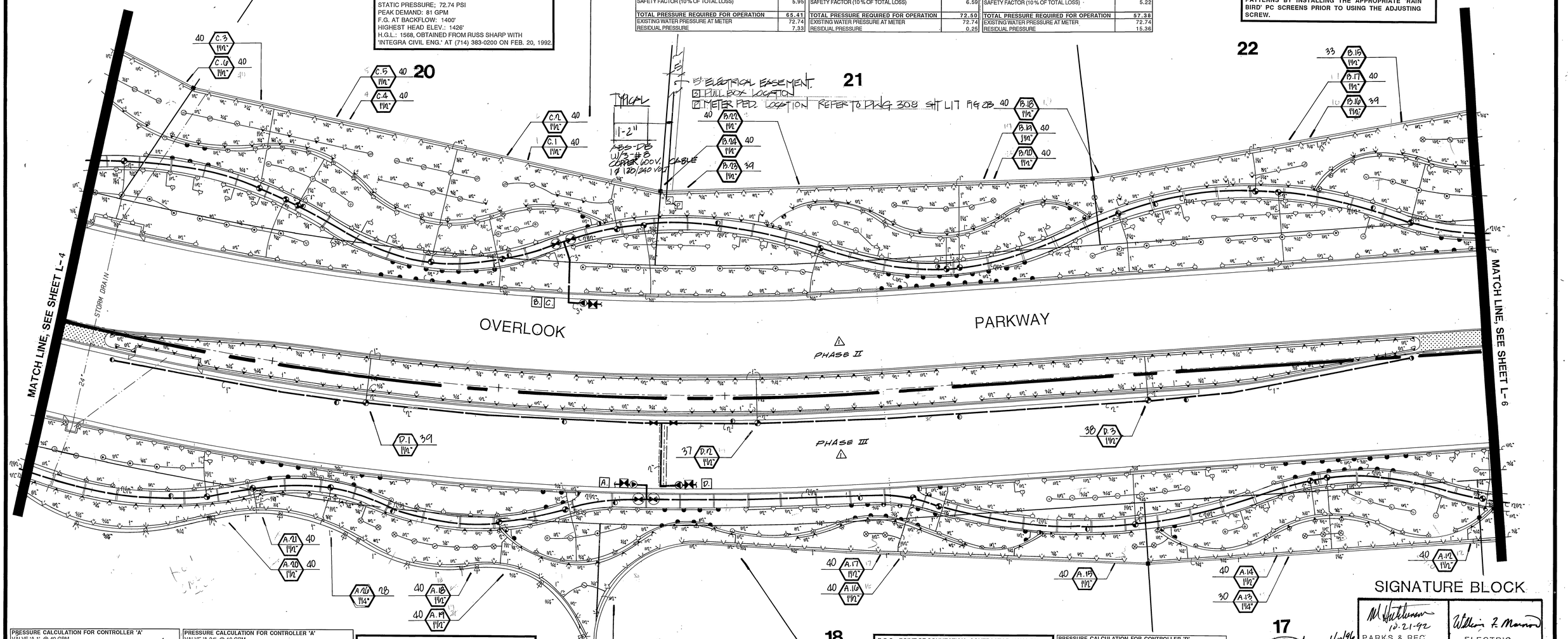
PRESSURE CALCULATION FOR CONTROLLER 'B' VALVE 'B-12' @ 32 GPM + 'C-12' @ 41 GPM = 73 GPM	
HGL (HYDRAULIC GRADE LINE)	1568.00
METER ELEVATION	1400.00
HIGHEST HEAD ELEVATION	1423.00
DOMESTIC IRRIGATION WATER METER (2")	4.10
BACKFLOW PREVENTER (2")	9.00
MAIN LINE PIPE	1.99
LATERAL LINE PIPE	2.05
ELECTRIC REMOTE CONTROL VALVE (1 1/2")	3.00
PRESSURE REQUIRED AT SPRINKLER	30.00
MISC. LOSS (20% OF TOTAL PIPING LOSS)	0.81
ELEVATION (LOSS/GAIN)	9.96
IN-LINE CHECK VALVE (ADV)	5.00
SAFETY FACTOR (10 % OF TOTAL LOSS)	6.59
TOTAL PRESSURE REQUIRED FOR OPERATION	**72.50**
EXISTING WATER PRESSURE AT METER	72.74
RESIDUAL PRESSURE	0.25

PRESSURE CALCULATION FOR CONTROLLER 'C' VALVE 'C-26' @ 26 GPM + 'B-12' @ 41 GPM = 67 GPM	
HGL (HYDRAULIC GRADE LINE)	1568.00
METER ELEVATION	1400.00
HIGHEST HEAD ELEVATION	1387.00
DOMESTIC IRRIGATION WATER METER (2")	3.30
BACKFLOW PREVENTER (2")	9.00
MAIN LINE PIPE	1.58
LATERAL LINE PIPE	2.50
ELECTRIC REMOTE CONTROL VALVE (1 1/4")	5.60
PRESSURE REQUIRED AT SPRINKLER	30.00
MISC. LOSS (20% OF TOTAL PIPING LOSS)	0.82
ELEVATION (LOSS/GAIN)	-5.63
IN-LINE CHECK VALVE (ADV)	5.00
SAFETY FACTOR (10 % OF TOTAL LOSS)	5.22
TOTAL PRESSURE REQUIRED FOR OPERATION	**57.38**
EXISTING WATER PRESSURE AT METER	72.74
RESIDUAL PRESSURE	15.36

CONTRACTOR SHALL OBTAIN AND COMPLY WITH PARK AND RECREATION DEPARTMENT'S STANDARDS AND SPECIFICATIONS AND CITY OF RIVERSIDE'S GENERAL REQUIREMENTS FOR IRRIGATION SYSTEM.

THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC., SHOWN WITHIN PAVED AREAS ARE FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHENEVER POSSIBLE.

CONTRACTOR SHALL ADJUST THE SPRAY PATTERNS ON ALL IRRIGATION HEADS TO ELIMINATE OVERSPRAY ONTO HARDSCAPES. HE SHALL ADJUST THE SPRAY PATTERNS BY INSTALLING THE APPROPRIATE 'RAIN BIRD' PC SCREENS PRIOR TO USING THE ADJUSTING SCREW.



PRESSURE CALCULATION FOR CONTROLLER 'A' VALVE 'A-1' @ 40 GPM	
HGL (HYDRAULIC GRADE LINE)	1568.00
METER ELEVATION	1400.00
HIGHEST HEAD ELEVATION	1424.80
DOMESTIC IRRIGATION WATER METER (2")	1.30
BACKFLOW PREVENTER (1 1/2")	9.00
MAIN LINE PIPE	3.93
LATERAL LINE PIPE	1.22
ELECTRIC REMOTE CONTROL VALVE (1 1/2")	3.20
PRESSURE REQUIRED AT SPRINKLER	20.00
MISC. LOSS (20% OF TOTAL PIPING LOSS)	1.03
ELEVATION (LOSS/GAIN)	9.01
IN-LINE CHECK VALVE (ADV)	5.00
SAFETY FACTOR (10 % OF TOTAL LOSS)	5.37
TOTAL PRESSURE REQUIRED FOR OPERATION	**59.06**
EXISTING WATER PRESSURE AT METER	71.01
RESIDUAL PRESSURE	11.96

PRESSURE CALCULATION FOR CONTROLLER 'A' VALVE 'A-24' @ 12 GPM	
HGL (HYDRAULIC GRADE LINE)	1568.00
METER ELEVATION	1404.00
HIGHEST HEAD ELEVATION	1390.00
DOMESTIC IRRIGATION WATER METER (2")	0.20
BACKFLOW PREVENTER (1 1/2")	9.50
MAIN LINE PIPE	1.56
LATERAL LINE PIPE	0.71
ELECTRIC REMOTE CONTROL VALVE (1")	3.70
PRESSURE REQUIRED AT SPRINKLER	30.00
MISC. LOSS (20% OF TOTAL PIPING LOSS)	0.45
ELEVATION (LOSS/GAIN)	-6.06
IN-LINE CHECK VALVE (ADV)	5.00
SAFETY FACTOR (10 % OF TOTAL LOSS)	4.51
TOTAL PRESSURE REQUIRED FOR OPERATION	**49.57**
EXISTING WATER PRESSURE AT METER	71.01
RESIDUAL PRESSURE	21.44

P.O.C.= POINT OF CONNECTION. CONTRACTOR SHALL RUN A 2 1/2" MAINLINE FROM THE 1 1/2"DOMESTIC WATER METER TO THE 1 1/2" BACKFLOW PREVENTION DEVICE.
FINAL LOCATION OF THE P.O.C. TO BE APPROVED BY PUBLIC UTILITIES DEPARTMENT ~~OR WESTERN MUNISIPAL WATER DISTRICT.~~ △1
STATIC PRESSURE; 71.01 PSI
PEAK DEMAND: 40 GPM
F.G. AT BACKFLOW: 1404'
HIGHEST HEAD ELEV.: 1424.8'
H.G.L.: 1568, OBTAINED FROM RUSS SHARP WITH 'INTEGRA CIVIL ENG.' AT (714) 383-0200 ON FEB. 20, 1992.

CONTROLLER 'A' LOCATION.
CONTRACTOR SHALL INSTALL A 'RAIN BIRD' #ISC-32B ELECTRIC WALL MOUNT CONTROLLER IN A 'LE MEUR' VANDAL PROOF ENCLOSURE. CONTRACTOR SHALL COORDINATE THE 120 VAC POWER SUPPLY TO THIS LOCATION AND MAKE THE FINAL HOOK-UP. FINAL LOCATION OF THE CONTROLLER TO BE APPROVED BY THE PUBLIC UTILITIES DEPARTMENT.

NOTES:

GENERAL NOTES SEE SHEET L-4

IRRIGATION LEGEND ON SHEET L-6

P.O.C.= POINT OF CONNECTION. CONTRACTOR SHALL RUN A 2" MAINLINE FROM THE 1 1/2" DOMESTIC WATER METER TO THE 1 1/2" BACKFLOW PREVENTION DEVICE.
FINAL LOCATION OF THE P.O.C. TO BE APPROVED BY PUBLIC UTILITIES DEPARTMENT ~~OR WESTERN MUNISIPAL WATER DISTRICT.~~ △1
STATIC PRESSURE; 71.01 PSI
PEAK DEMAND: 39 GPM
F.G. AT BACKFLOW: 1404'
HIGHEST HEAD ELEV.: 1407'
H.G.L.: 1568, OBTAINED FROM RUSS SHARP WITH 'INTEGRA CIVIL ENG.' AT (714) 383-0200 ON FEB. 20, 1992.

PRESSURE CALCULATION FOR CONTROLLER 'D' VALVE 'D-3' @ 38 GPM	
HGL (HYDRAULIC GRADE LINE)	1568.00
METER ELEVATION	1404.00
HIGHEST HEAD ELEVATION	1407.00
DOMESTIC IRRIGATION WATER METER (1 1/2")	3.00
BACKFLOW PREVENTER (1 1/2")	9.00
MAIN LINE PIPE	3.30
LATERAL LINE PIPE	2.00
ELECTRIC REMOTE CONTROL VALVE (1 1/2")	3.20
PRESSURE REQUIRED AT SPRINKLER	20.00
MISC. LOSS (20% OF TOTAL PIPING LOSS)	1.06
ELEVATION (LOSS/GAIN)	1.30
IN-LINE CHECK VALVE (ADV)	5.00
SAFETY FACTOR (10 % OF TOTAL LOSS)	4.79
TOTAL PRESSURE REQUIRED FOR OPERATION	**52.64**
EXISTING WATER PRESSURE AT METER	71.01
RESIDUAL PRESSURE	18.37

CONTROLLER 'D' LOCATION.
CONTRACTOR SHALL INSTALL A 'RAIN BIRD' #ISC-8B ELECTRIC WALL MOUNT CONTROLLER IN A 'LE MEUR' VANDAL PROOF ENCLOSURE. CONTRACTOR SHALL COORDINATE THE 120 VAC POWER SUPPLY TO THIS LOCATION AND MAKE THE FINAL HOOK-UP. FINAL LOCATION OF THE CONTROLLER TO BE APPROVED BY THE PUBLIC UTILITIES DEPARTMENT.

REGISTERED PROFESSIONAL ENGINEER ROGER G. BECK No. 28248 Exp. 3/31/98 CIVIL STATE OF CALIFORNIA 4/10/96

REVISION △1 ONLY

0 20 40 60

REGISTERED LANDSCAPE ARCHITECT ROGER G. BECK LICENSE NO. 2374 Signature 3/4/92 Date STATE OF CALIFORNIA

SIGNATURE BLOCK

10-21-92 PARKS & REC.	10-21-92 ELECTRIC
8/7/96 WATER	9/20/92 PLANNING

△1 PHASE II & III

LAND DESIGN STUDIO
LANDSCAPE ARCHITECTS
ROGER G. BECK PRESIDENT
33666 PEQUITO DRIVE DANA POINT, CA 92629
(714) 496-1754

TRACT 26109

MARK	REVISIONS	ENGR	DATE	APPR.	DATE
△1	ADD PHASING, REVISE NOTES	F. Illany	4-10-96		9/19/96

DESIGNED BY RGB DRAWN BY SRP CHECKED BY RGB

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	11/10/92	
PARK DEPARTMENT	10-21-92	
TRAFFIC DIVISION	—	—
CHIEF P. W. ENGINEER	11/16/92	
	11/10/92	

APPROVED BY
PUBLIC WORKS DIRECTOR
DATE 11/18/92

REVERSE FRONTAGE AND MEDIAN LANDSCAPE PLAN

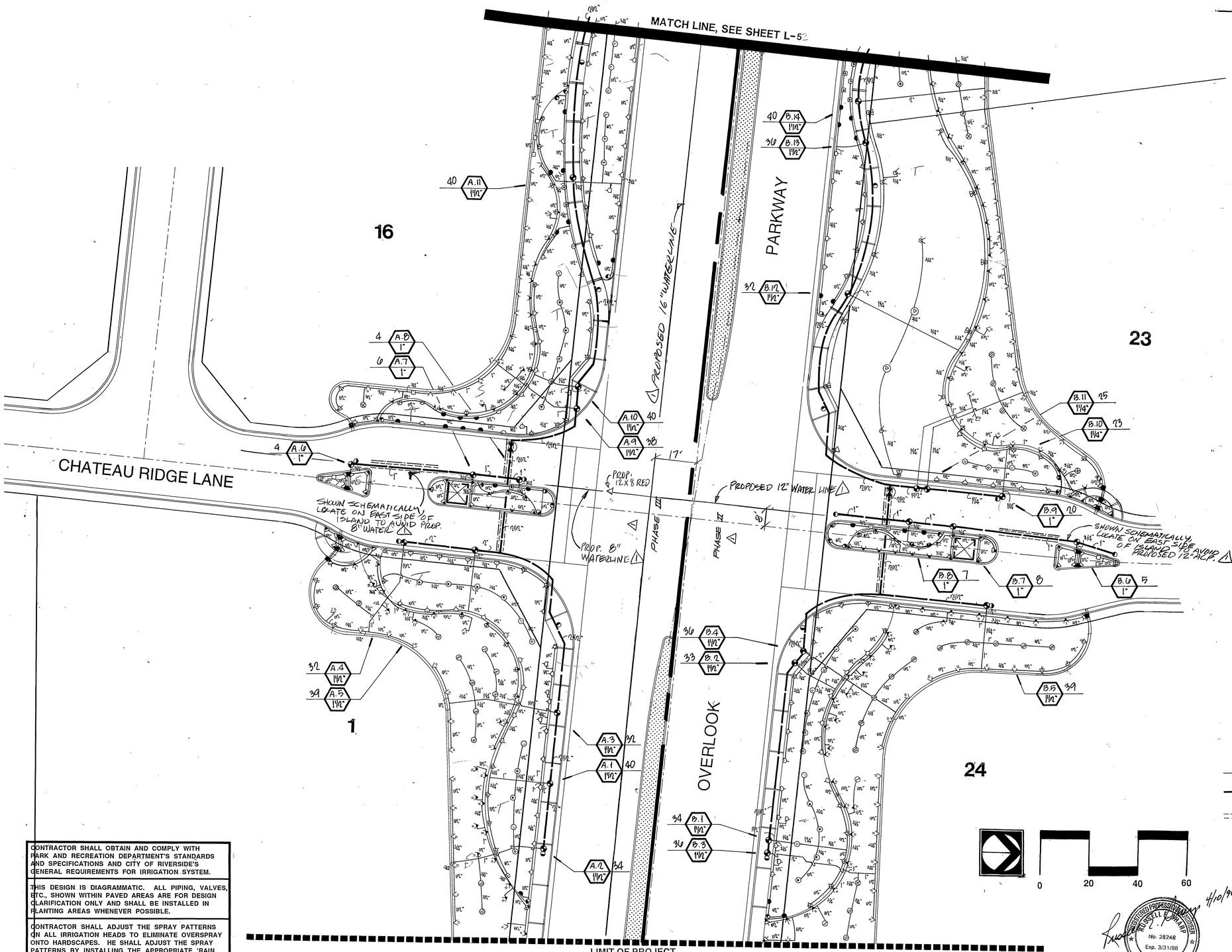
IRRIGATION PLAN

HORIZ. SCALE: 1" = 20'-0" VERT. SCALE: 1" =

ACCOUNT NO. R3268L
L5
SHEET 6 OF 21

PC 3425-R/M

DR-64-912 INDEXED 1-8-97



LEGEND

SYMBOL	MANUFACTURER	MODEL NO./DESCRIPTION	GPM	PSI	RAD
	RAIN BIRD	PA-8S-8H-FLT SHRUB SPRAY	.65	20	8
	RAIN BIRD	PA-8S-8F-FLT SHRUB SPRAY	1.30	20	8
	RAIN BIRD	PA-8S-12T SHRUB SPRAY	.70	20	10
	RAIN BIRD	PA-8S-12H SHRUB SPRAY	1.05	20	10
	RAIN BIRD	PA-8S-12F SHRUB SPRAY	2.10	20	10
	RAIN BIRD	PA-8S-15T SHRUB SPRAY	1.00	20	12
	RAIN BIRD	PA-8S-15H SHRUB SPRAY	1.50	20	12
	RAIN BIRD	PA-8S-15F SHRUB SPRAY	3.00	20	12
	RAIN BIRD	1812-SAM-8Q-FLT SHRUB POP-UP	.33	20	8
	RAIN BIRD	1812-SAM-8T-FLT SHRUB POP-UP	.43	20	8
	RAIN BIRD	1812-SAM-8H-FLT SHRUB POP-UP	.65	20	8
	RAIN BIRD	1812-SAM-12Q SHRUB POP-UP	.53	20	10
	RAIN BIRD	1812-SAM-12T SHRUB POP-UP	.70	20	10
	RAIN BIRD	1812-SAM-12H SHRUB POP-UP	1.05	20	10
	RAIN BIRD	1812-SAM-15Q SHRUB POP-UP	.75	20	12
	RAIN BIRD	1812-SAM-15T SHRUB POP-UP	1.00	20	12
	RAIN BIRD	1812-SAM-15H SHRUB POP-UP	1.50	20	12
	RAIN BIRD	1812-SAM-15EST SHRUB POP-UP	.50	20	4X14
	RAIN BIRD	1812-SAM-15SST SHRUB POP-UP	1.00	20	4X28
	RAIN BIRD	1806-SAM-10Q-LA TURF POP-UP	.33	20	8
	RAIN BIRD	1806-SAM-10T-LA TURF POP-UP	.43	20	8
	RAIN BIRD	1806-SAM-10H-LA TURF POP-UP	.65	20	8
	RAIN BIRD	1806-SAM-10F-LA TURF POP-UP	1.30	20	8
	RAIN BIRD	1806-SAM-12Q TURF POP-UP	.53	20	10
	RAIN BIRD	1806-SAM-12T TURF POP-UP	.70	20	10
	RAIN BIRD	1806-SAM-12H TURF POP-UP	1.05	20	10
	RAIN BIRD	1806-SAM-12F TURF POP-UP	2.10	20	10
	RAIN BIRD	1806-SAM-15Q TURF POP-UP	.75	20	12
	RAIN BIRD	1806-SAM-15T TURF POP-UP	1.00	20	12
	RAIN BIRD	1806-SAM-15H TURF POP-UP	1.50	20	12
	RAIN BIRD	1806-SAM-15F TURF POP-UP	3.00	20	12
	RAIN BIRD	1806-SAM-15EST TURF POP-UP	.50	20	4X24
	RAIN BIRD	1806-SAM-15SST TURF POP-UP	1.00	20	4X24
	HUNTER	PGP-ADV-03 TURF POP-UP ROTOR	.90	30	30
	HUNTER	PGP-ADV-04 TURF POP-UP ROTOR	1.20	30	32
	HUNTER	PGP-ADV-06 TURF POP-UP ROTOR	2.00	30	36
	HUNTER	PGP-36V-09 TURF POP-UP ROTOR	4.20	30	38
	HUNTER	PGH-ADV-05-LA POP-UP ROTOR	1.60	30	25
	HUNTER	PGH-ADV-07-LA POP-UP ROTOR	2.80	30	29
	HUNTER	PGH-ADV-08-LA POP-UP ROTOR	3.40	40	31
	RAIN BIRD	EFB-CP-PRS SERIES ELECTRIC REMOTE CONTROL VALVE. SEE PLAN FOR SIZE.			
	RAIN BIRD	#44LRC (1") QUICK COUPLING VALVE W/LOCKING YELLOW VINYL COVER.			
	FEBCO	825Y REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION DEVICE. SEE PLAN FOR SIZE.			
	NIBCO	T-113 LINE SIZE GATE VALVE, 2" AND SMALLER.			
	NIBCO	T-136 LINE SIZE GATE VALVE, 2 1/2" AND LARGER.			
C	IRRITROL	MC PLUS CONTROLLER INSIDE A 'LE MEUR' VANDAL RESISTANT ENCLOSURE. SEE NOTE ON PLAN FOR MODEL NUMBER.			
	APPROVED	LATERAL LINE, CL. 200 PVC PIPE, SIZE AS NOTED.			
	APPROVED	MAINLINE 1 1/2" & SMALLER SCH. 40 SOLVENT WELD PVC PIPE. 2" & LARGER CL. 315 SOLVENT WELD PVC PIPE.			
	APPROVED	SLEEVE, SCH. 40 PVC PIPE 4" DIA. MIN. INSTALL 24" BELOW FINISHED GRADE. EXTEND 12" PAST EDGE OF PAVING.			
	APPROVED	DOMESTIC IRRIGATION WATER METER BY OTHERS. SEE P.O.C. NOTE ON PLAN.			

NOTES:
GENERAL NOTES SEE SHEET L-4
IRRIGATION CALCS SEE SHEET L-5

CONTRACTOR SHALL OBTAIN AND COMPLY WITH PARK AND RECREATION DEPARTMENT'S STANDARDS AND SPECIFICATIONS AND CITY OF RIVERSIDE'S GENERAL REQUIREMENTS FOR IRRIGATION SYSTEM.

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SIGNATURE BLOCK

10-21-92 PARKS & REC.	N/A ELECTRIC
8/7/96 WATER	9/20/92 PLANNING

REGISTERED PROFESSIONAL ENGINEER CLAYTON L. SHARP No. 28248 Exp. 3/31/98 CIVIL STATE OF CALIFORNIA 4/10/96

REGISTERED LANDSCAPE ARCHITECT ROGER G. BECK LICENSE NO. 2771 SIGNATURE Date STATE OF CALIFORNIA

REVISION 1 ONLY

1 PHASE II & III

LAND DESIGN STUDIO
LANDSCAPE ARCHITECTS
ROGER G. BECK PRESIDENT
33666 PEQUITO DRIVE DANA POINT, CA 92629
(714) 496-1754

TRACT 26109

MARK	REVISIONS	BY	DATE	APP'D	DATE
1	ADD PHASING; SHOW FROM WATERLINES	R.Oliver	4-10-96		9/9/96

DESIGNED BY RGB DRAWN BY SRP CHECKED BY

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	11/10/92	
PARK DEPARTMENT	10-21-92	
TRAFFIC DIVISION	—	—
CHIEF P. W. ENGINEER	11/16/92	
	11/19/92	

APPROVED BY PUBLIC WORKS DIRECTOR DATE 11/16/92

REVERSE FRONTAGE AND MEDIAN LANDSCAPE PLAN

IRRIGATION PLAN

HORIZ. SCALE: 1" = 20'-0" VERT. SCALE: 1" =

ACCOUNT NO. R3268L
L6
SHEET 7 OF 21

PC 3425-R/M

DR-64-912 INDEXED 1-8-97 4H

TREE LEGEND

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QTY	REMARKS
	ALNUS CORDATA	ITALIAN ALDER	15 GAL	0	
	BRACHYCHITON POPULNEUS	BOTTLE TREE	15 GAL	3	
	LAGERSTROEMIA HYBRID 'NATCHEZ'	CRAPE MYRTLE	15 GAL	31	MULTI
	LIQUID AMBAR STYRACIFLUA 'PALO ALTO'	SWEET GUM	15 GAL	33	
	PINUS CANARIENSIS	CANARY ISLAND PINE	15 GAL	28	
	PINUS HALEPENSIS	ALEPPO PINE	15 GAL	3	
	SCHINUS MOLLE	PEPPER TREE	15 GAL	45	MULTI

REGISTERED PROFESSIONAL ENGINEER R.S. DUBOK No. 28248 Exp. 3/31/98 CIVIL STATE OF CALIFORNIA
4/10/96
REVISION ONLY

REGISTERED LANDSCAPE ARCHITECT ROGER G. BECK LICENSE NO. 2771 Signature Date 8/1/92 STATE OF CALIFORNIA

SIGNATURE BLOCK

M Hutchinson 10-21-92 PARKS & REC.	N/A ELECTRIC
R.S. Dubok 8/7/96 WATER	B Miloseric 9/29/92 PLANNING

LAND DESIGN STUDIO
LANDSCAPE ARCHITECTS
ROGER G. BECK PRESIDENT
33666 PEQUITO DRIVE DANA POINT, CA 92629
(714) 496-1754

TRACT 26109

MARK	REVISIONS	ENGR	DATE	APPR.	DATE
1	ADD PHASING, RELOCATE TREE SHOW EX. 12" WATER, 14" D.I.	R.Dubok	4-10-96	WLL	9/19/96

DESIGNED BY RGB DRAWN BY CRP CHECKED BY RGB

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	11/10/92	
PARK DEPARTMENT	10-21-92	
TRAFFIC DIVISION	—	—
CHIEF P.W. ENGINEER	11/18/92	
	11/10/92	

APPROVED BY
PUBLIC WORKS DIRECTOR
DATE 11/18/92

REVERSE FRONTAGE AND MEDIAN LANDSCAPE PLAN

TREE PLANTING PLAN

HORIZ. SCALE: 1" = 20'-0" VERT. SCALE: 1" =

ACCOUNT NO. R3268L
L7
SHEET 8 OF 21

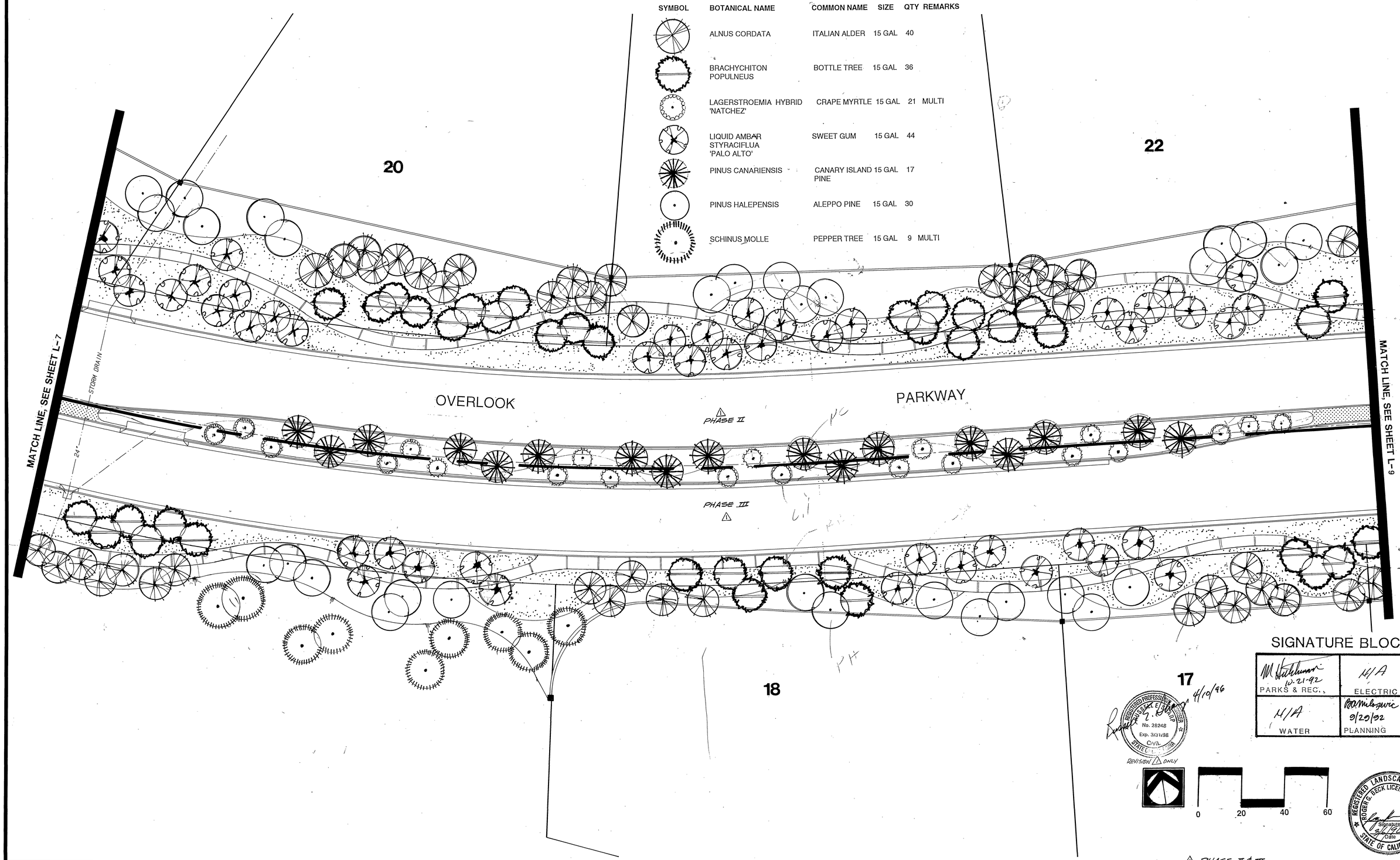
PC 3425-R/M

DR-64-912

INDEXED 1-8-97 GH

TREE LEGEND

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QTY	REMARKS
	ALNUS CORDATA	ITALIAN ALDER	15 GAL	40	
	BRACHYCHITON POPULNEUS	BOTTLE TREE	15 GAL	36	
	LAGERSTROEMIA HYBRID 'NATCHEZ'	CRAPE MYRTLE	15 GAL	21	MULTI
	LIQUID AMBAR STYRACIFLUA 'PALO ALTO'	SWEET GUM	15 GAL	44	
	PINUS CANARIENSIS	CANARY ISLAND PINE	15 GAL	17	
	PINUS HALEPENSIS	ALEPPO PINE	15 GAL	30	
	SCHINUS MOLLE	PEPPER TREE	15 GAL	9	MULTI



SIGNATURE BLOCK

10-21-92 PARKS & REC.	N/A ELECTRIC
N/A WATER	9/29/92 PLANNING

REGISTERED PROFESSIONAL ENGINEER — No. 28248 — Exp. 3/31/98 — CIVIL — STATE OF CALIFORNIA — 4/10/96

REVISION 1 ONLY

REGISTERED LANDSCAPE ARCHITECT — ROGER G. BECK LICENSE NO. 2771 — Signature — Date — STATE OF CALIFORNIA

1 PHASE II & III

LAND DESIGN STUDIO
LANDSCAPE ARCHITECTS
ROGER G. BECK PRESIDENT
33666 PEQUITO DRIVE DANA POINT, CA 92629
(714) 496-1754

TRACT 26109

MARK	REVISIONS	ENGR.	DATE	APPR.	DATE
1	ADD PHASING	R.Alvy	4-10-96	WLK	9/19/96

DESIGNED BY RGB DRAWN BY SPP CHECKED BY RGB

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	11/10/92	
PARK DEPARTMENT	10-21-92	
TRAFFIC DIVISION	—	—
CHIEF P. W. ENGINEER	11/18/92	
	11/10/92	WLK

APPROVED BY
PUBLIC WORKS DIRECTOR
DATE 11/18/92

REVERSE FRONTAGE AND MEDIAN LANDSCAPE PLAN

TREE PLANTING PLAN

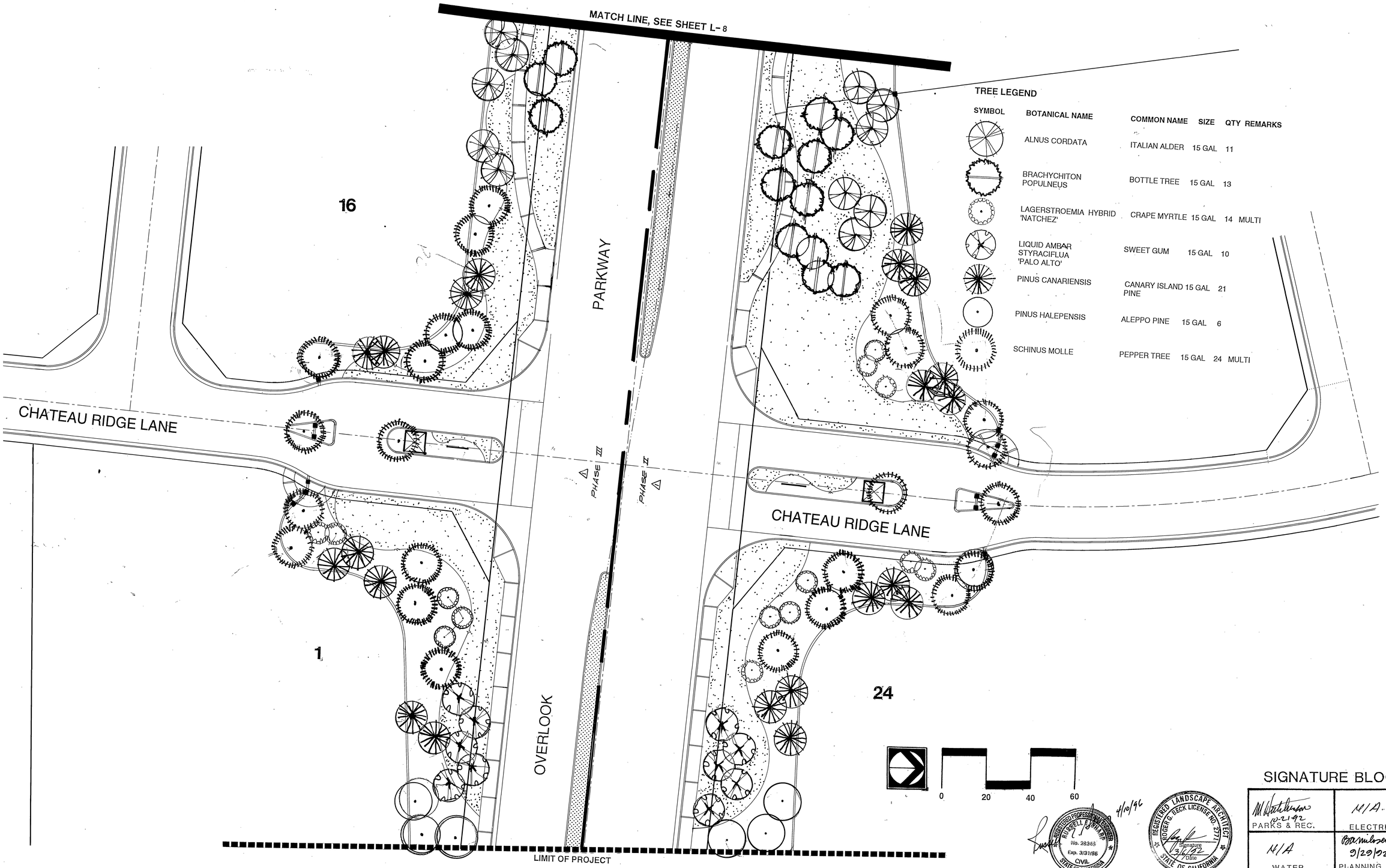
HORIZ. SCALE: 1" = 20'-0" VERT. SCALE: 1" =

ACCOUNT NO. R3268L
L8
SHEET 9 OF 21

PC 3425-R/M

DR-64-912

INDEXED 1-8-97



TREE LEGEND

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QTY	REMARKS
	ALNUS CORDATA	ITALIAN ALDER	15 GAL	11	
	BRACHYCHITON POPULNEUS	BOTTLE TREE	15 GAL	13	
	LAGERSTROEMIA HYBRID 'NATCHEZ'	CRAPE MYRTLE	15 GAL	14	MULTI
	LIQUID AMBAR STYRACIFLUA 'PALO ALTO'	SWEET GUM	15 GAL	10	
	PINUS CANARIENSIS	CANARY ISLAND PINE	15 GAL	21	
	PINUS HALEPENSIS	ALEPPO PINE	15 GAL	6	
	SCHINUS MOLLE	PEPPER TREE	15 GAL	24	MULTI

REGISTERED PROFESSIONAL ENGINEER RUSSELL J. BRIAR No. 28243 Exp. 3/31/96 CIVIL STATE OF CALIFORNIA 4/10/96

REGISTERED LANDSCAPE ARCHITECT ROGER G. BECK LICENSE NO. 2577 Signature 3/6/92 Date STATE OF CALIFORNIA

REVISION △ ONLY

△ PHASE II & III

SIGNATURE BLOCK

M Weatherson 10-21-92 PARKS & REC.	N/A ELECTRIC
N/A WATER	Ron Milosevic 9/29/92 PLANNING

LAND DESIGN STUDIO
LANDSCAPE ARCHITECTS
ROGER G. BECK PRESIDENT
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(714) 496-1754

TRACT 26109

MARK	REVISIONS	ENGR	DATE	APPR.	DATE
△	ADD PHASING	R. Ellery	4-10-96	LRC	9/19/96

DESIGNED BY RGB DRAWN BY SRP CHECKED BY

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	11/10/92	
PARK DEPARTMENT	10-21-92	
TRAFFIC DIVISION	—	
CHIEF P. W. ENGINEER	11/11/92	
	11/11/92	

APPROVED BY
PUBLIC WORKS DIRECTOR
DATE 11/18/92

REVERSE FRONTAGE AND MEDIAN LANDSCAPE PLAN

TREE PLANTING PLAN

HORIZ. SCALE: 1" = 20'-0" VERT. SCALE: 1" =

ACCOUNT NO. R3268L
L9
SHEET 10 OF 21

PC 3425-R/M

DR-64-912 INDEXED 1-8-97

GROUND COVER LEGEND

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QTY	REMARKS
	ANNUAL COLOR		4" POT	**	TO BE SELECTED BY L.A.
	HEDERA HELIX 'NEEDLEPOINT'	NEEDLPOINT IVY	FLATS 9" O.C.	**	UNDERPLANT FOREGROUND OF RAPHIO-LEPIS
	LANTANA MONTEVIDENSIS	LANTANA LAVENDAR	FLATS 12" O.C.	**	12" FORE-GROUND PLANT WITH IVY
	LONICER JAPONICA 'HALLIANA'	HALL'S HONEYSUCKLE	FLATS 16" O.C.	**	UNDERPLANT ESCALONIA, XYLOSMA & DODENAEA
	PELARGONIUM PELTATUM (50%) (BALCON ROYALE)	IVY GERANIUM	4" POTS 12" O.C.	**	PLANT FORE-GROUND OF HEMEROCAL-LIS & MORAEA
	PELARGONIUM PELTATUM (50%) (KING OF BALCON)	KING OF BALCON	4" POTS 12" O.C.	**	
	TRACHELOSPERMUM JASMINOIDES	STAR JASMINE	1 GAL 2'-0" O.C.	70	

**NOTE: TO BE COMPUTED BY CONTRACTOR

HYDRO SEED MIX (ALL SHRUB AREAS EXCEPT CENTER MEDIANS)

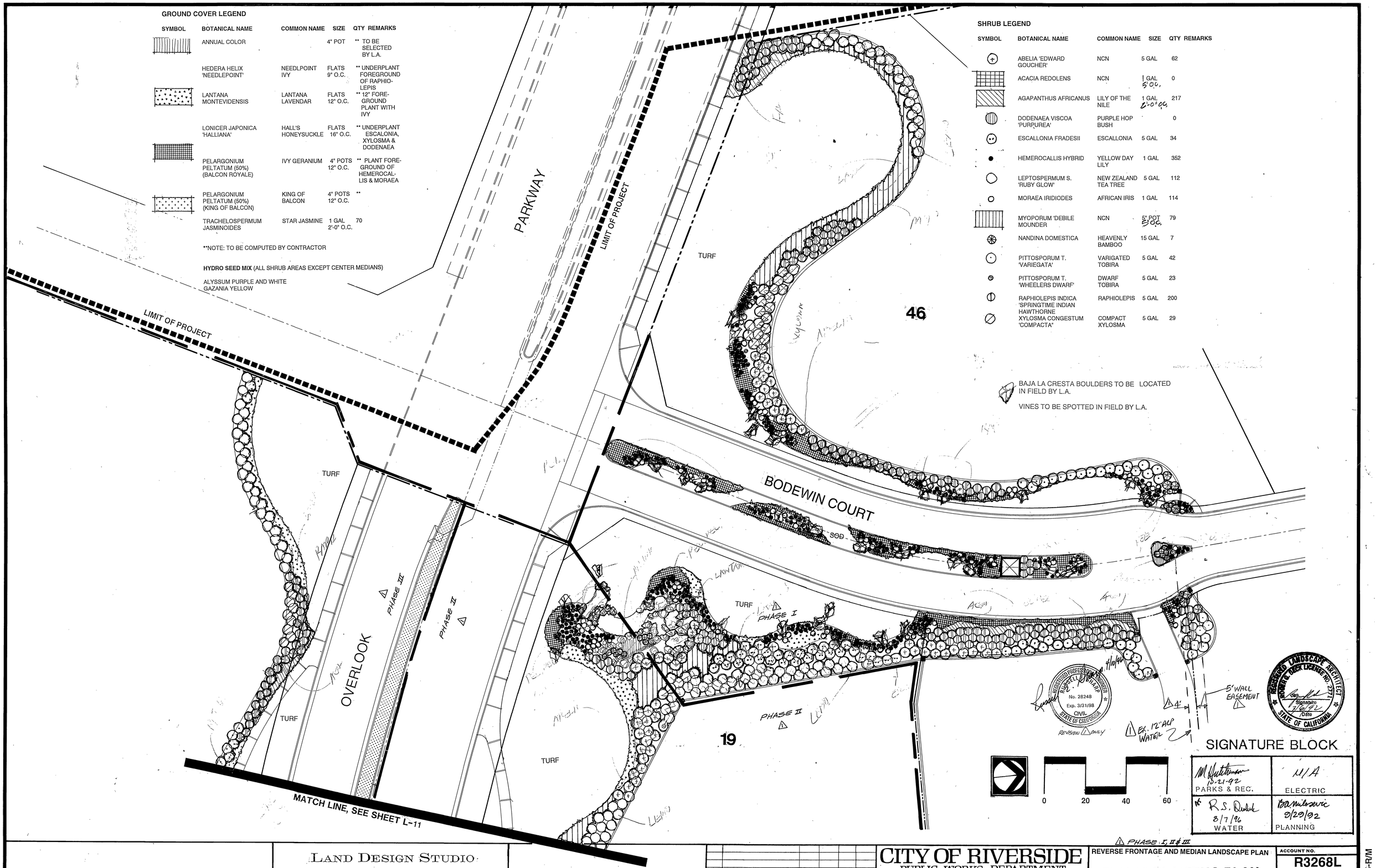
ALYSSUM PURPLE AND WHITE
GAZANIA YELLOW

SHRUB LEGEND

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QTY	REMARKS
	ABELIA 'EDWARD GOUCHER'	NCN	5 GAL	62	
	ACACIA REDOLENS	NCN	1 GAL 5'0.C.	0	
	AGAPANTHUS AFRICANUS	LILY OF THE NILE	1 GAL 2'-0" O.C.	217	
	DODENAEA VISCOA 'PURPUREA'	PURPLE HOP BUSH		0	
	ESCALLONIA FRADESII	ESCALLONIA	5 GAL	34	
	HEMEROCALLIS HYBRID	YELLOW DAY LILY	1 GAL	352	
	LEPTOSPERMUM S. 'RUBY GLOW'	NEW ZEALAND TEA TREE	5 GAL	112	
	MORAEA IRIDIODES	AFRICAN IRIS	1 GAL	114	
	MYOPORUM 'DEBILE MOUNDER	NCN	5" POT 5'O.C.	79	
	NANDINA DOMESTICA	HEAVENLY BAMBOO	15 GAL	7	
	PITTOSPORUM T. 'VARIEGATA'	VARIGATED TOBIRA	5 GAL	42	
	PITTOSPORUM T. 'WHEELERS DWARF'	DWARF TOBIRA	5 GAL	23	
	RAPHIOLEPIS INDICA 'SPRINGTIME INDIAN HAWTHORNE	RAPHIOLEPIS	5 GAL	200	
	XYLOSMA CONGESTUM 'COMPACTA'	COMPACT XYLOSMA	5 GAL	29	

BAJA LA CRESTA BOULDERS TO BE LOCATED IN FIELD BY L.A.

VINES TO BE SPOTTED IN FIELD BY L.A.



REVISION ONLY

PHASE I, II & III

SIGNATURE BLOCK

M Hutchinson 10-21-92 PARKS & REC.	N/A ELECTRIC
R.S. Dudek 8/7/96 WATER	D.A. Nikolovski 8/20/92 PLANNING

LAND DESIGN STUDIO
LANDSCAPE ARCHITECTS
ROGER G. BECK PRESIDENT
33666 PEQUITO DRIVE DANA POINT, CA 92629
(714) 496-1754

TRACT 26109

MARK	REVISIONS	ENGR.	DATE	APPR.	DATE
1	ADD PHASING, ADD EX12"W & WALL EASE.	V. Wong	4-10-96	WLL	9/19/96

DESIGNED BY RGB DRAWN BY SBP CHECKED BY RGB

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	11/10/92	SP
PARK DEPARTMENT	10-21-92	MH
TRAFFIC DIVISION	—	—
CHIEF P. W. ENGINEER	11/10/92	RTG
	11/10/92	WLL

APPROVED BY
PUBLIC WORKS DIRECTOR
DATE 11/18/92

REVERSE FRONTAGE AND MEDIAN LANDSCAPE PLAN

SHRUB PLANTING PLAN

HORIZ. SCALE: 1" = 20'-0" VERT. SCALE: 1" =

ACCOUNT NO.
R3268L
L10
SHEET 11 OF 21

PC 3425-R/M

DR-64-912 INDEXED 1-8-97

GROUND COVER LEGEND

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QTY	REMARKS
	ANNUAL COLOR		4" POT	**	TO BE SELECTED BY L.A.
	HEDERA HELIX 'NEEDLEPOINT'	NEEDLPOINT IVY	FLATS 9" O.C.	**	UNDERPLANT FOREGROUND OF RAPHIO-LEPIS
	LANTANA MONTEVIDENSIS	LANTANA LAVENDAR	FLATS 12" O.C.	**	
	LONICER JAPONICA 'HALLIANA'	HALL'S HONEYSUCKLE	FLATS 16" O.C.	**	
	PELARGONIUM PELTATUM (50%) (BALCON ROYALE)	IVY GERANIUM	4" POTS 12" O.C.	**	
	PELARGONIUM PELTATUM (50%) (KING OF BALCON)	KING OF BALCON	4" POTS 12" O.C.	**	
	TRACHELOSPERMUM JASMINOIDES	STAR JASMINE	1 GAL 2'-0" O.C.	186	

**NOTE: TO BE COMPUTED BY CONTRACTOR

HYDRO SEED MIX (ALL SHRUB AREAS EXCEPT CENTER MEDIANS)

ALYSSUM PURPLE AND WHITE
GAZANIA YELLOW

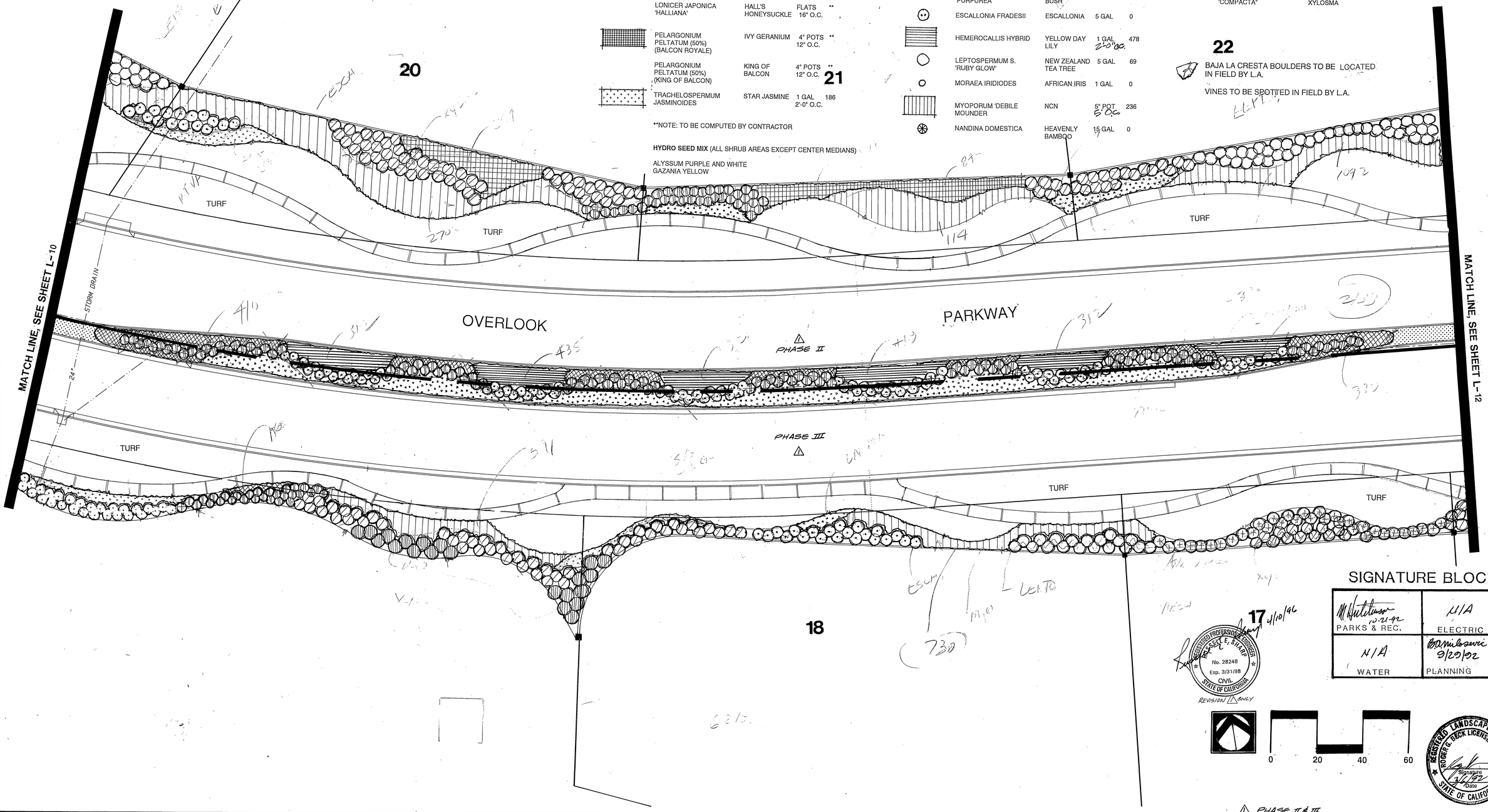
SHRUB LEGEND

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QTY
	ABELIA 'EDWARD GOUCHER'	NCN	5 GAL	34
	ACACIA REDOLENS	NCN	1 GAL 5'-0" O.C.	63
	AGAPANTHUS AFRICANUS	LILY OF THE NILE	1 GAL 2'-0" O.C.	350
	DODENAEA VISCOA 'PURPUREA'	PURPLE HOP BUSH	5 GAL	21
	ESCALLONIA FRADESII	ESCALLONIA	5 GAL	0
	HEMEROCALLIS HYBRID	YELLOW DAY LILY	1 GAL 2'-0" O.C.	478
	LEPTOSPERMUM S. 'RUBY GLOW'	NEW ZEALAND TEA TREE	5 GAL	69
	MORAEA IRIDIODES	AFRICAN IRIS	1 GAL	0
	MYOPORUM 'DEBILE MOUNDER	NCN	5" POT 5'-0" O.C.	236
	NANDINA DOMESTICA	HEAVENLY BAMBOO	15 GAL	0
	PITTOSPORUM T. 'VARIEGATA'	VARIGATED TOBIRA	5 GAL	150
	PITTOSPORUM T. 'WHEELERS DWARF'	DWARF TOBIRA	5 GAL	0
	RAPHIOLEPIS INDICA 'SPRINGTIME INDIAN HAWTHORNE	RAPHIOLEPIS	5 GAL	168
	XYLOSMA CONGESTUM 'COMPACTA'	COMPACT XYLOSMA	5 GAL	142

22

BAJA LA CRESTA BOULDERS TO BE LOCATED IN FIELD BY L.A.

VINES TO BE SPOTTED IN FIELD BY L.A.



SIGNATURE BLOCK

PARKS & REC. 10-21-92	N/A ELECTRIC
N/A WATER	9/20/92 PLANNING

REGISTERED PROFESSIONAL ENGINEER No. 28248 Exp. 3/31/98 CIVIL STATE OF CALIFORNIA

REVISION 1 ONLY

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REGISTERED LANDSCAPE ARCHITECT ROGER G. BECK LICENSE NO. 2771 STATE OF CALIFORNIA Signature 11/6/92 Date

△ PHASE II & III

LAND DESIGN STUDIO
LANDSCAPE ARCHITECTS
ROGER G. BECK PRESIDENT
33666 PEQUITO DRIVE DANA POINT, CA 92629
(714) 496-1754

TRACT 26109

MARK	REVISIONS	DATE	APPR.	DATE
1	ADD PHASING	4-10-95		9/10/92

DESIGNED BY RGB DRAWN BY SRP CHECKED BY RGB

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	11/10/92	
PARK DEPARTMENT	10-21-92	
TRAFFIC DIVISION		
CHIEF P. W. ENGINEER	11/16/92	
	11/10/92	

APPROVED BY
PUBLIC WORKS DIRECTOR
DATE 11/16/92

REVERSE FRONTAGE AND MEDIAN LANDSCAPE PLAN

SHRUB PLANTING PLAN

HORIZ. SCALE: 1" = 20'-0" VERT. SCALE: 1" =

ACCOUNT NO. R3268L

L11

SHEET 12 OF 21

PC 3425-R/M

DR-64-912 INDEXED 1-8-97 4H

MATCH LINE, SEE SHEET L-11

GROUND COVER LEGEND

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QTY	REMARKS
	ANNUAL COLOR		4" POT	**	TO BE SELECTED BY L.A.
	HEDERA HELIX 'NEEDLEPOINT'	NEEDLPOINT IVY	FLATS 9" O.C.	**	UNDERPLANT FOREGROUND OF RAPHIO-LEPIS
	LANTANA MONTEVIDENSIS	LANTANA LAVENDAR	FLATS 12" O.C.	**	
	LONICER JAPONICA 'HALLIANA'	HALL'S HONEYSUCKLE	FLATS 16" O.C.	**	
	PELARGONIUM PELTATUM (50%) (BALCON ROYALE)	IVY GERANIUM	4" POTS 12" O.C.	**	
	PELARGONIUM PELTATUM (50%) (KING OF BALCON)	KING OF BALCON	4" POTS 12" O.C.	**	
	TRACHELOSPERMUM JASMINOIDES	STAR JASMINE	1 GAL 2'-0" O.C.	**	

**NOTE: TO BE COMPUTED BY CONTRACTOR

HYDRO SEED MIX (ALL SHRUB AREAS EXCEPT CENTER MEDIANS)

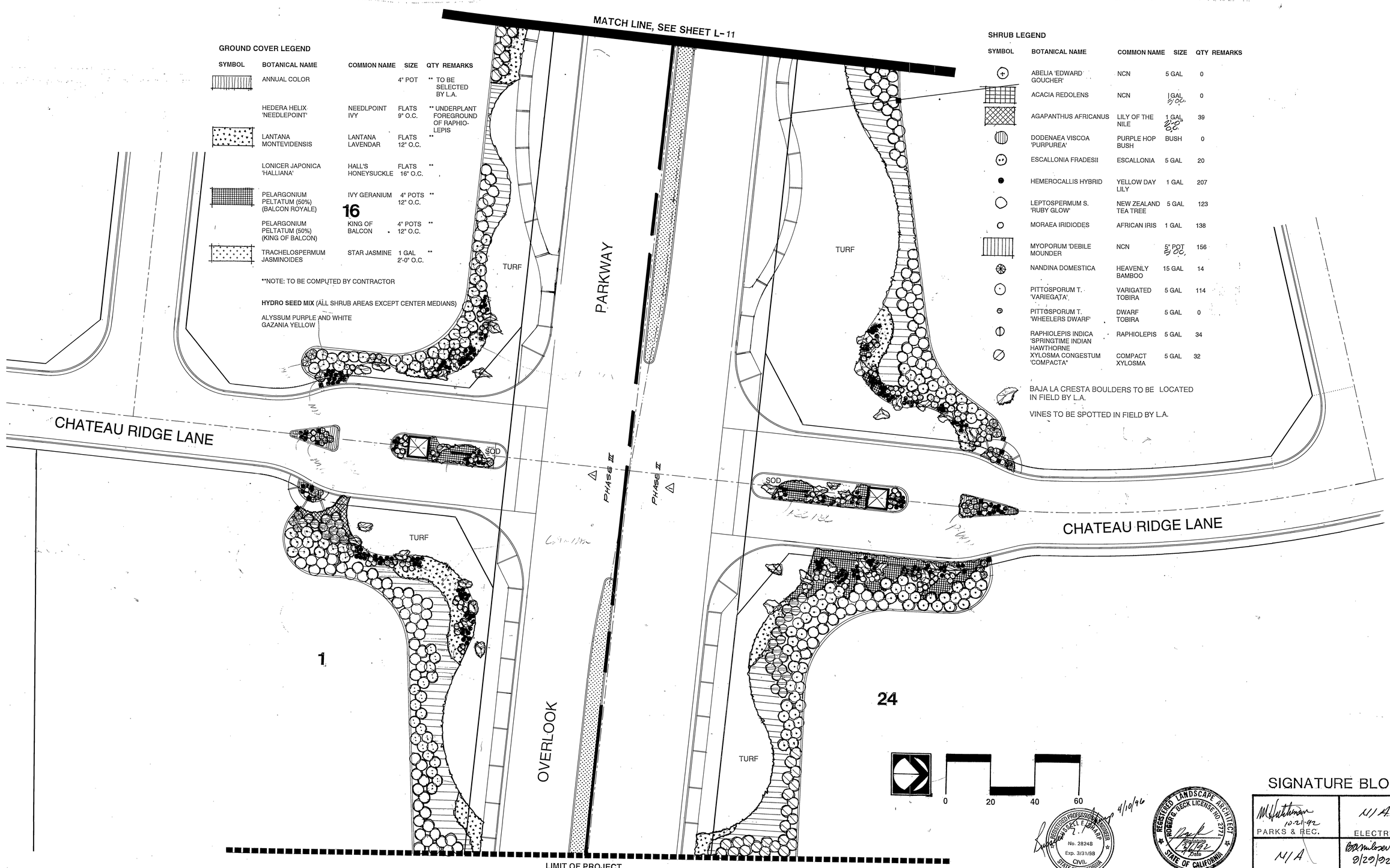
ALYSSUM PURPLE AND WHITE
GAZANIA YELLOW

SHRUB LEGEND

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QTY	REMARKS
	ABELIA 'EDWARD GOUCHER'	NCN	5 GAL	0	
	ACACIA REDOLENS	NCN	1 GAL 5' O.C.	0	
	AGAPANTHUS AFRICANUS	LILY OF THE NILE	1 GAL 2'-0" O.C.	39	
	DODENAEA VISCOA 'PURPUREA'	PURPLE HOP BUSH	BUSH	0	
	ESCALLONIA FRADESII	ESCALLONIA	5 GAL	20	
	HEMEROCALLIS HYBRID	YELLOW DAY LILY	1 GAL	207	
	LEPTOSPERMUM S. 'RUBY GLOW'	NEW ZEALAND TEA TREE	5 GAL	123	
	MORAEA IRIDIODES	AFRICAN IRIS	1 GAL	138	
	MYOPORUM 'DEBILE MOUNDER	NCN	5" POT 5' O.C.	156	
	NANDINA DOMESTICA	HEAVENLY BAMBOO	15 GAL	14	
	PITTOSPORUM T. 'VARIEGATA'	VARIGATED TOBIRA	5 GAL	114	
	PITTOSPORUM T. 'WHEELERS DWARF'	DWARF TOBIRA	5 GAL	0	
	RAPHIOLEPIS INDICA 'SPRINGTIME INDIAN HAWTHORNE	RAPHIOLEPIS	5 GAL	34	
	XYLOSMA CONGESTUM 'COMPACTA"	COMPACT XYLOSMA	5 GAL	32	

BAJA LA CRESTA BOULDERS TO BE LOCATED IN FIELD BY L.A.

VINES TO BE SPOTTED IN FIELD BY L.A.



SIGNATURE BLOCK

10-21-92 PARKS & REC.	N/A ELECTRIC
N/A WATER	9/29/92 PLANNING

REGISTERED PROFESSIONAL ENGINEER RUSSELL E. DYKAR No. 28248 Exp. 3/31/98 CIVIL STATE OF CALIFORNIA 4/10/96

REGISTERED LANDSCAPE ARCHITECT ROGER G. BECK LICENSE NO. 2771 Signature Date STATE OF CALIFORNIA

REVISION △ ONLY

△ PHASE II & III

LAND DESIGN STUDIO
LANDSCAPE ARCHITECTS
ROGER G. BECK PRESIDENT
33666 PEQUITO DRIVE DANA POINT, CA 92629
(714) 496-1754

TRACT 26109

MARK	REVISIONS	ENGR	DATE	APPR.	DATE
△	ADD PHASING	RDBeck	8-10-95	RDB	9/29/95

DESIGNED BY RDB DRAWN BY SRP CHECKED BY

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	11/10/92	
PARK DEPARTMENT	10-21-92	
TRAFFIC DIVISION		
CHIEF P. W. ENGINEER	11/18/92	
	11/10/92	

APPROVED BY
PUBLIC WORKS DIRECTOR
DATE 11/18/92

REVERSE FRONTAGE AND MEDIAN LANDSCAPE PLAN

SHRUB PLANTING PLAN

HORIZ. SCALE: 1" = 20'-0" VERT. SCALE: 1" =

ACCOUNT NO. R3268L
L12
SHEET 13 OF 21

PC 3425-R/M

DR-64-912 INDEXED 1-8-97

SECTION 02441 - IRRIGATION

PART 1 - GENERAL

1.01 RELATED DOCUMENTS
THE PROVISIONS OF THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", CURRENT EDITION, SHALL APPLY EXCEPT AS MODIFIED HEREIN.

1.02 SCOPE
A. GENERAL:
THE WORK OF THIS SECTION SHALL INCLUDE THE FURNISHING OF ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY TO PROVIDE COMPLETE OPERATING IRRIGATION SYSTEMS, INCLUDING 120 VOLT ELECTRICAL SERVICE TO THE CONTROLLER, ALL AS SHOWN ON THE DRAWINGS AND AS SPECIFIED.

B. RELATED WORK SPECIFIED ELSEWHERE:

SITE CLEAR AND GRUB	02110
SITE GRADING	02210
SELECTED SITE DEMOLITION	02111
PLANTING	02480
ELECTRICAL	16530

1.03 SUBMITTALS:
A. MATERIALS LIST:
CONTRACTOR SHALL SUBMIT A COMPLETE MATERIALS LIST FOR APPROVAL BY THE CITY PRIOR TO PERFORMING ANY WORK. CATALOG DATA AND FULL DESCRIPTIVE LITERATURE MUST BE SUBMITTED WHENEVER THE USE OF ITEMS DIFFERENT THAN THOSE SPECIFIED IS REQUESTED. NOTARIZED CERTIFICATE MUST BE SUBMITTED BY PLASTIC PIPE AND FITTING MANUFACTURER INDICATING THAT MATERIAL COMPLIES WITH SPECIFICATIONS, UNLESS MATERIAL HAS BEEN PREVIOUSLY APPROVED.

MATERIAL LIST SHALL BE SUBMITTED USING THE FOLLOWING FORMAT:

ITEM	DESCRIPTION	MANUFACTURER	MODEL NO.
1	PRESSURE SUPPLY LINE	LASCO	SCH. 40
2	LAWN HEAD	RAINBIRD	2400
ETC.	ETC.		

B. "RECORD" PRINTS:
(1) RECORD ACCURATELY ON ONE SET OF BLUE-LINE PRINTS ALL CHANGES IN THE WORK CONSTITUTING DEPARTURES FROM THE ORIGINAL CONTRACT DRAWINGS, INCLUDING CHANGES IN PRESSURE AND NON-PRESSURE LINE LOCATIONS.

(2) THE CHANGES AND DIMENSIONS SHALL BE RECORDED IN A LEGIBLE AND WORKMANLIKE MANNER TO THE SATISFACTION OF THE CITY. PRIOR TO FINAL INSPECTION OF WORK, SUBMIT RECORD PRINTS TO CITY FOR APPROVAL.

(3) DIMENSION FROM TWO PERMANENT POINTS OF REFERENCE (BUILDINGS, MONUMENTS, SIDEWALKS, CURBS, PAVEMENT, ETC. DATE TO BE SHOWN ON RECORD PRINTS SHALL BE RECORDED DAY-TO-DAY AS THE PROJECT IS BEING INSTALLED.

(4) SHOW LOCATIONS AND DEPTHS OF THE FOLLOWING ITEMS:
A. POINT OF CONNECTION
B. ROUTING OF SPINKLER PRESSURE LINES (DIMENSION MAXIMUM 100 FEET ALONG ROUTING).
C. GATE VALVES.
D. SPRINKLER CONTROL VALVES.
E. QUICK COUPLING VALVES.
F. ROUTING OF CONTROL WIRES.
G. RELATED EQUIPMENT (AS MAY BE DIRECTED).

(5) MAINTAIN RECORD PRINTS ONSITE AT ALL TIMES.

1.04 INSPECTIONS:
A. INSPECTIONS WILL BE REQUIRED FOR:
(1) PRESSURE TEST OF IRRIGATION MAIN LINE.
(2) COVERAGE TEST.
(3) FINAL INSPECTION/START OF MAINTENANCE.
(4) FINAL ACCEPTANCE.

B. INSPECTION REQUESTS:
CONTRACTOR SHALL NOTIFY THE PARK PROJECTS INSPECTOR IN ADVANCE FOR REQUESTING ALL INSPECTIONS AS FOLLOWS:

PRESSURE SUPPLY LINE INSTALLATION AND TESTING - 36 HOURS (1-1/2 WORKING DAYS
SYSTEM LAYOUT - 36 HOURS (1-1/2 WORKING DAYS)
COVERAGE TESTS - 36 HOURS (1-1/2 WORKING DAYS)
FINAL INSPECTION - 48 HOURS (TWO WORKING DAYS)

WHEN INSPECTIONS HAVE BEEN CONDUCTED BY OTHER THAN THE PARK PROJECTS INSPECTOR, THE CONTRACTOR SHALL SHOW EVIDENCE OF WHEN AND BY WHOM THESE INSPECTIONS WERE MADE.

NO INSPECTION WILL COMMENCE WITHOUT "RECORD" PRINTS. IN THE EVENT THE CONTRACTOR CALLS FOR AN INSPECTION WITHOUT UP TO DATE "RECORD" PRINTS, WITHOUT COMPLETING PREVIOUSLY NOTED CORRECTIONS, OR WITHOUT PREPARING THE SYSTEM FOR INSPECTION, THE INSPECTION WILL BE CANCELLED AND THE CONTRACTOR BACK CHARGED FOR THE DIRECT COSTS OF ALL CITY PERSONNEL TIME AND CONSULTANT TIME LOST.

C. CLOSING IN UNINSPECTED WORK:
~~DO NOT~~ ALLOW OR CAUSE ANY OF THE WORK OF THIS SECTION TO BE COVERED UP OR ENCLOSED UNTIL IT HAS BEEN INSPECTED, TESTED AND APPROVED BY THE CITY.

D. COVERAGE TEST:
WHEN THE SPRINKLER SYSTEM IS COMPLETED, CONTRACTOR SHALL PERFORM A COVERAGE TEST IN THE PRESENCE OF THE CITY TO DETERMINE IF THE WATER COVERAGE FOR PLANTING AREAS IS COMPLETE AND ADEQUATE. THIS TEST MUST BE ACCEPTED BY THE CITY BEFORE PLANTING CAN COMMENCE.

E. HYDROSTATIC TEST:
(1) PRIOR TO THE INSTALLATION OF ANY VALVES, ALL PRESSURE LINES SHALL BE TESTED UNDER A HYDROSTATIC PRESSURE OF 150 PSI FOR A PERIOD OF NOT LESS THAN TWO HOURS, WITH ALL ENDS OF LINES CAPPED AND THE LINE FULLY CHARGED WITH WATER AFTER ALL AIR HAS BEEN EXPELLED FROM THE LINE.
(2) ALL HYDROSTATIC TESTS SHALL BE MADE IN THE PRESENCE OF THE PARK PROJECTS INSPECTOR OR HIS DESIGNATED REPRESENTATIVE. NO PRESSURE LINE SHALL BE BACKFILLED UNTIL IT HAS BEEN INSPECTED, TESTED, APPROVED IN WRITING, AND THE MAINLINE AND VALVE LOCATIONS HAVE BEEN NOTED ON THE "AS-BUILT" RECORD DRAWINGS.
(3) CONTRACTOR SHALL FURNISH NECESSARY FORCE PUMP AND ALL OTHER TEST EQUIPMENT.

1.05 TURNOVER ITEMS:
A. CONTROLLER CHARTS:
(1) RECORD PRINTS MUST BE APPROVED BY THE PARK PLANNING COORDINATOR BEFORE CHARTS ARE PREPARED.
(2) PROVIDE ONE CONTROLLER CHART (OF THE MAXIMUM SIZE CONTROLLER DOOR WILL ALLOW) FOR EACH AUTOMATIC CONTROLLER. CHART SHALL SHOW THE AREA COVERED BY CONTROLLER.
(3) THE CHART IS TO BE REDUCED COPY OF THE ACTUAL "RECORD" PRINT. IN THE EVENT THE CONTROLLER SEQUENCE IS NOT LEGIBLE WHEN THE PRINT IS REDUCED, IT SHALL BE ENLARGED TO A READABLE SIZE.
(4) CHART SHALL BE MARKED WITH A DIFFERENT COLOR TO SHOW THE AREA OF COVERAGE FOR EACH STATION.
(5) WHEN COMPLETED AND APPROVED, THE CHART SHALL BE HERMETICALLY SEALED BETWEEN TWO PIECES OF PLASTIC, EACH PIECE BEING MINIMUM 20 MILS IN THICKNESS. CHART SHALL BE INSTALLED IN THE CONTROLLER ENCLOSURE USING VELCRO FASTENERS.
(6) CONTROLLER CHARTS SHALL BE COMPLETED PRIOR TO FINAL INSPECTION.

B. OPERATION AND MAINTENANCE MANUALS:
WITHIN A MINIMUM OF 14 CALENDAR DAYS PRIOR TO ACCEPTANCE OF CONSTRUCTION, PREPARE AND DELIVER TO THE HOA ALL REQUIRED DESCRIPTIVE MATERIALS, PROPERLY PREPARED IN TWO INDIVIDUALLY BOUND COPIES OF THE OPERATION AND MAINTENANCE MANUAL. THE MANUAL SHALL DESCRIBE THE MATERIAL INSTALLED AND SHALL BE IN SUFFICIENT DETAIL TO PERMIT OPERATING PERSONNEL TO IDENTIFY, OPERATE, AND MAINTAIN ALL EQUIPMENT. SPARE PARTS LISTS AND RELATED MANUFACTURE'S INFORMATION SHALL BE INCLUDED FOR EACH EQUIPMENT ITEM INSTALLED. EACH COMPLETE, BOUND MANUAL SHALL INCLUDE THE FOLLOWING INFORMATION:
(1) INDEX SHEET STATING CONTRACTOR'S ADDRESS AND TELEPHONE NUMBER, INCLUDING NAMES AND ADDRESSES AND TELEPHONE NUMBERS OF LOCAL MANUFACTURER'S REPRESENTATIVES.
(2) COMPLETE OPERATING AND MAINTENANCE INSTRUCTIONS ON ALL MAJOR EQUIPMENT.

C. MATERIALS TO BE FURNISHED:
(1) SUPPLY AS PART OF THIS CONTRACT THE FOLLOWING ITEMS:
A. 4% ADDITIONAL SPRINKLER HEADS OF EACH TYPE AND SPRAY PATTERN SHOWN.
B. TWO (2) WRENCHES FOR DISASSEMBLY AND ADJUSTMENT OF EACH TYPE SPRINKLER HEAD INSTALLED.
C. TWO KEYS FOR EACH AUTOMATIC CONTROLLER.
D. TWO COUPLERS WITH A 3/4" BRONZE HOSE BIB, BENT NOSE TYPE WITH HAND WHEEL AND TWO COUPLER KEYS.
E. ONE VALVE BOX COVER KEY.
F. "AS-BUILT" RECORD DRAWINGS.
G. REMOVE AND TURN OVER BACKFLOW DEVICE VALVE HANDLES.
H. DOCUMENTATION OF WATER DEPARTMENT'S INSPECTION AND ACCEPTANCE OF BACKFLOW DEVICE.

D. THE ABOVE ITEMS SHALL BE TURNED OVER TO THE HOA AT THE CONCLUSION OF THE PROJECT - FINAL INSPECTION.

1.06 GUARANTEE
A. GENERAL:
THE ENTIRE SPRINKLER SYSTEM, INCLUDING ALL WORK DONE UNDER THIS CONTRACT, SHALL BE GUARANTEED AGAINST ALL DEFECTS AND FAULT OF MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FOLLOWING THE FILING OF THE NOTICE OF COMPLETION. ALL MATERIALS USED SHALL CARRY A MANUFACTURER'S GUARANTEE OF ONE (1) YEAR.

SHOULD ANY PROBEM WITH THE IRRIGATION SYSTEM BE DISCOVERED WITHIN THE GUARANTEE PERIOD, IT SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE CITY WITHIN TEN (10) CALENDAR DAYS OF RECEIPT OF WRITTEN NOTICE FROM THE CITY. WHEN THE NATURE OF THE REPAIRS AS DETERMINED BY THE CITY CONSTITUTE AN EMERGENCY (E.G. BROKEN PRESSURE LINE) THE CITY MAY PROCEED TO MAKE REPAIRS AT THE CONTRACTOR'S EXPENSE. ANY AND ALL DAMAGES TO EXISTING IMPROVEMENT RESULTING EITHER FROM FAULTY MATERIALS OR WORKMANSHIP, OR FROM THE NECESSARY REPAIRS TO CORRECT SAME, SHALL BE REPAIRED TO THE SATISFACTION OF THE CITY BY THE CONTRACTOR, ALL AT NO ADDITIONAL COST TO THE CITY.
B. FORM OF GUARANTEE:
GUARANTEE SHALL BE SUBMITTED ON CONTRACTORS OWN LETTERHEAD AS FOLLOWS:

GUARANTEE FOR SPRINKLER IRRIGATION SYSTEM

WE HEREBY GUARANTEE THE SPRINKLER IRRIGATION SYSTEM WE HAVE FURNISHED AND INSTALLED AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP, ORDINARY WEAR AND TEAR AND UNUSUAL ABUSE, OR NEGLECT EXCEPTED, AND THAT THE WORK HAS BEEN COMPLETED IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. WE AGREE TO REPAIR OR REPLACE ANY OR ALL OF OUR WORK, TOGETHER WITH ANY OTHER ADJACENT WORK WHICH MAY BE DISPLACED BY SO DOING, THAT MAY PROVE TO BE DEFECTIVE IN ITS WORKMANSHIP OR MATERIALS WITHIN A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE OF THE ABOVE NAMED PROJECT BY THE CITY OF RIVERSIDE, CALIFORNIA, AT NO ADDITIONAL COST TO THE CITY. WE SHALL MAKE SUCH REPAIRS REPLACEMENTS WITHIN 14 CALENDAR DAYS FOLLOWING WRITTEN NOTIFICATION BY THE CITY. WHEN THE IMMEDIATE REPAIR OR REPLACEMENT OF THE WORK IS NECESSARY TO ENSURE THE PUBLIC SAFETY AND WELFARE, WHICH WOULD BE ENDANGERED BY CONTINUED USAGE OF THE FACILITY, SUCH CIRCUMSTANCE WILL BE DEEMED AN OPERATIONAL EMERGENCY. IN THE EVENT OF SUCH AN EMERGENCY AFTER THE CITY CONTACTS OUR FIRM AND AFTER AUTHORIZING 24 HOURS TO INITIATE REPAIRS, IF WE FAIL TO INITIATE AND DILIGENTLY COMPLETE SUCH REPAIRS IN A TIMELY MANNER, THE DIRECTOR MAY DIRECT CITY FORCES TO PERFORM SUCH FUNCTIONS AS HE MAY DEEM NECESSARY TO CORRECT THE WORK AND IMMEDIATELY PLACE THE FACILITY BACK IN OPERATIONAL CONDITION. IF SUCH PROCEDURE IS IMPLEMENTED, WE SHALL BEAR ALL EXPENSES INCURRED BY THE CITY. IN ALL CASES, THE JUDGEMENT OF THE DIRECTOR SHALL BE FINAL IN DETERMINING WHETHER AN OPERATIONAL EMERGENCY EXISTS. IN THE EVENT OF OUR FAILURE TO MAKE SUCH REPAIRS OR REPLACEMENTS WITHIN THE TIME SPECIFIED AFTER RECEIPT OF WRITTEN NOTICE FROM THE CITY (OTHER THAN AN OPERATIONAL EMERGENCY), WE AUTHORIZE THE CITY TO PROCEED TO HAVE SAID REPAIRS OR REPLACEMENTS MADE AT OUR EXPENSE AND WE WILL PAY THE COSTS AND CHARGES THEREFORE UPON DEMAND.

PROJECT:____________________
LOCATION:____________________ SIGNED:____________________
ADDRESS:____________________

PHONE:____________________

C. AFTER THE SYSTEM HAS BEEN COMPLETED, THE CONTRACTOR SHALL INSTRUCT THE HOMEOWNERS ASSOCIATION IN THE OPERATION AND MAINTENANCE OF THE SYSTEM AND SHALL FURNISH A COMPLETE SET OF OPERATING INSTRUCTIONS.
D. ANY SETTLING OF TRENCHES WHICH MAY OCCUR DURING THE ONE-YEAR PERIOD FOLLOWING ACCEPTANCE SHALL BE REPAIRED TO CITY'S SATISFACTION BY THE CONTRACTOR WITHOUT ANY ADDITIONAL EXPENSE TO THE CITY. REPAIRS SHALL INCLUDE THE COMPLETE RESTORATION OF ALL DAMAGE TO PLANTING, PAVING OR OTHER IMPROVEMENTS OF ANY KIND AS A RESULT OF THE WORK.

PART 2 - MATERIALS

2.01 GENERAL:
ALL MATERIALS SHALL CONFORM WITH SECTION 212 OF THE STANDARD SPECIFICATION EXCEPT AS MODIFIED HEREIN.

2.02 PIPE AND FITTINGS:
A. PIPE - GENERAL:
(1) PRESSURE SUPPLY LINES 2 INCHES IN DIAMETER AND UP TO 8 INCHES IN DIAMETER SHALL BE EITHER CLASS 315 SOLVENT WELD PVC OR CLASS 200' RUBBER GASKET TYPE PVE. SOLVENT WELD AND RING TYPE PIPE SHALL NOT BE USED TOGETHER ON THE SAME PRESSURE SUPPLY LINE.
(2) PRESSURE SUPPLY LINES 1-1/2 INCHES IN DIAMETER AND SMALLER SHALL BE MINIMUM SCHEDULE 40 PVC.
(3) NON-PRESSURE LINES SHALL BE MINIMUM CLASS 200 PVC.
B. STEEL PIPE:
AMEND STANDARD SPECIFICATIONS SECTION 212-2.1.2 TO READ: "ALL STEEL PIPE SHALL BE HOT-DIPPED GALVANIZED,....", AND ADD: "ALL FITTINGS FOR STEEL PIPE SHALL BE 250 POUND RATED GALVANIZED MALLEABLE IRON, BANDED PATTERN. PIPE SIZES INDICATED ON THE DRAWINGS ARE NOMINAL INSIDE DIAMETER, UNLESS OTHERWISE NOTED."

C. PLASTIC PIPE:
ADD THE FOLLOWING TO STANDARD SPECIFICATIONS SECTION 212-2.1.3:
ALL PLASTIC PIPE SHALL BEAR THE FOLLOWING MARKINGS: MANUFACTURER'S NAME, NOMINAL PIPE SIZE, SCHEDULE OR CLASS, TYPE OF MATERIAL, PRESSURE RATING IN PSI, NSF SEAL OF APPROVAL, AND DATE OF EXTRUSION.

AMEND STANDARD SPECIFICATION SECTION 212-2.1.3 TO READ: ALL PLASTIC PIPE FITTINGS SHALL BE STANDARD WEIGHT SCHEDULE 40 AND SHALL BE INJECTED MOLDED OF AN IMPROVED PVC FITTING COMPOUND. ALL THREADED PLASTIC FITTINGS SHALL HAVE INJECTION MOLDED THREADS. NO CUT THREADS WILL BE ACCEPTED ON PVC PIPE AND FITTINGS. ALL TEES AND ELLS SHALL BE MANUFACTURED IN INJECTION MOLDS THAT ARE SIDE GATED. ALL THREADED NIPPLES SHALL BE STANDARD WEIGHT SCHEDULE 80 WITH MOLDED THREADS.

AMEND FIRST SENTENCE OF STANDARD SPECIFICATION SECTION 212-2.1.4 TO READ: "ALL RUBBER GASKET PVC PIPE, COUPLINGS, AND FITTINGS SHALL CONFORM TO ASTM D 2241 TYPE 1, GRADE 1, 2000-PSI DESIGN STRESS"; AND ADD THE FOLLOWING TO THE SECTION: "COUPLINGS, RUBBER GASKETS, AND FITTINGS SHALL BE AS APPROVED BY THE PIPE MANUFACTURER. RING-TYPE RUBBER GASKET COUPLINGS SHALL PERMIT A FIVE (5) DEGREE DEFLECTION OF THE PIPE AT EACH COUPLING (2-1/2 DEGREES EACH SIDE) WITHOUT EXFILTRATION OR INFILTRATION, CRACKING OR BREAKING."
D. ASBESTOS CEMENT PIPE:
ADD THE FOLLOWING TO STANDARD SPECIFICATIONS SECTIONS 212-2/1/6: FITTINGS FOR A.C.P. CONNECTION LATERALS SHALL BE CAST IRON TEES AND BOSSED COUPLINGS EXCEPT AS FOLLOWS:
(1) DOUBLE STRAP SERVICE CLAMPS WITH RUBBER SEALS AND FLAT BRONZE STRAPS MAY BE USED FOR CONNECTIONS OF 50% OR LESS THAN THE DIAMETER OF PIPE.
(2) TAPPED A.C.P. COUPLINGS WITH BRASS INSERTS MAY BE USED FOR CONNECTIONS OF 3/4, 1, 1-1/4. 1-1/2 AND 2 INCHES.

2.03 VALVES AND VALVE BOXES:
A. MANUAL CONROL VALVES:
ADD THE FOLLOWING TO STANDARD SPECIFICATIONS SECTION 212-2.2.3: ANTI-SIPHON-TYPE VALVES SHALL BE ALL BRONZE WITH SWIVEL-TYPE REPLACEABLE SEATING MEMBERS AND AN APPROVED VACUUM BREAKER AS AS INTREGAL PART OF ASSEMBLY.
B. REMOTE CONTROL VALVES:
ADD THE FOLLOWING TO STANDARD SPECIFICATIONS SECTION 212-2.2.4: VALVES SHALL BE SPRING-LOADED, SELF-CLEANING, PACKLESS DIAPHRAM ACTIVATED, OF A NORMALLY CLOSED TYPE. VALVES SHALL BE OF THE SAME MANUFACTURER AND SERIES AS THE AUTOMATIC CONTROLLER.
VALVE SOLENOID SHALL BE CORROSION-PROOF AND CONSTRUCTED OF STAINLESS STEEL MOLED IN EPOXY TO FORM ONE INTEGRAL UNIT, AND SHALL BE 24 VOLT A.C., 2.0 WATT MAXIMUM (2" AND SMALLER VALVES).
VALVE SHALL CLOSE AGAINST FLOW WITHOUT CHATTER AND WITH MINIMUM CLOSING SURGE PRESSURE (MINIMUM 5 SECONDS CLOSING TIME PER VALVE).
C. QUICK-COUPLING VALVES:
ADD THE FOLLOWING TO STANDARD SPECIFICATIONS SECTION 212-2.2.6: QUICK COUPLING VALVES SHALL HAVE LOCKING VINYL COVER AND SHALL BE 1" IN SIZE.
D. GATE VALVES:
ALL GATE VALVES SHALL BE CAPABLE OF WITHSTANDING A MINIMUM WORKING PRESSURE OF NOT LESS THAN 150 PSI.
E. VALVE BOXES:
ADD THE FOLLOWING TO STANDARD SPECIFICATION SECTION 212-2.2.7: ALL REMOTE CONTROL VALVE BOXES SHALL BE RECTANGULAR CONCRETE BOXES WITH NON-HINGED LOCKING CAST-IRON COVERS/ VALVE STATION NUMBER SHALL BE STENCILED IN TWO-INCH-HIGH (2") NUMERALS ON COVER USING EPOXY RESIN BASE PAINT OF A CONTRASTING COLOR. GATE VALVE BOXES SHALL BE ROUND CONCRETE BOSES WITH NON-HINGED LOCKING CAST IRON COVERS MARKED EITHER "GATE VALVE" OR "G.V." WITH LETTERS CAST OR TOOLED IN THE COVER.

2.04 BACKFLOW PREVENTER:
ADD THE FOLLOWING TO STANDARD SPECIFICATIONS SECTION 212-2.3: THE BACKFLOW PREVENTION UNIT SHALL BE A REDUCED PRESSURE TYPE VACUMM BREAKER OF THE SIZE, MANUFACTURE, AND MODEL NUMBER AS INDICATIED ON THE DRAWINGS. IF NOT INDICATED, THE DEVICE SHALL BE THE SAME SIZE AS THE WATER SERVICE AND THE MANUFACTURER AND MODEL NUMBER SHALL BE AS APPROVED BY THE CITY.

2.05 ELECTRICAL MATERIALS:
A. CONDUIT:
AMEND STANDARD SPECIFICATIONS SECTION 212-3.2.1 TO READ: CONDUIT BELOW PAVING SHALL BE SCHEDULE 40 PVC OF SUFFICIENT SIZE TO CARRY ALL PROPOSED WIRING. WIRING SHALL BE IN A SEPARATE SLEEVE.
B. WIRE:
ADD THE FOLLOWING TO STANDARD SPECIFICATIONS SECTION 212-3.2.2: ALL COMMON WIRE SHALL BE WHITE WITH A COLORED STRIPE. STRIPE COLOR SHALL BE DIFFERENT FOR EACH CONTROLLER INSTALLED. ALL CONTROL WIRE SHALL BE OF ONE COLOR OTHER THAN WHITE OR GREEN. A DIFFERENT COLOR CONTROL WIRE SHALL BE USED FOR EACH CONTROLLER INSTALLED.
C. ELECTRICAL SERVICE:
MATERIALS FOR ELECTRICAL SERVICE SHAL COMPLY WITH THE STANDARD SPECIFICATIONS, GOVERNING UTILITY AGENCY STANDARDS, AND REQUIREMENTS OF ALL APPLICABLE CODES.

2.06 CONTROLLER UNIT:
ADD THE FOLLOWING TO STANDARD SPECIFICATIONS SECTION 212-3.3: CONTROLLERS SHALL BE WALL MOUNTED TYPE, AS INDICATED ON THE DRAWINGS, WITH A HEAVY DUTY WATERTIGHT CASE AND LOCKING HINGED COVER.
2.07 IRRIGATION HEADS:
ALL IRRIGATION HEADS SHALL BE AS SHOWN ON THE PLANS AND SHALL CONFORM WITH SECTION 212-2.4 OF THE STANDARD SPECIFICATIONS.

PART 3 - EXECUTION

3.01 GENERAL
ALL WORK SHALL CONFORM WITH SECTION 308 OF THE STANDARD SPECIFICATIONS EXCEPT AS MODIFIED HEREIN. NO WORK OF THIS SECTION OTHER THAN SLEEVING UNDER PAVEMENT SHALL COMMENCE PRIOR TO THE COMPLETION AND ACCEPTANCE OF ALL GRADING WORK SPECIFIED IN SECTION 02210.
ADD THE FOLLOWING TO STANDARD SPECIFICATIONS SECTION 308-5.1:
A. IRRIGATION SYSTEM DESIGN & WATER SUPPLY:
1) THE IRRIGATION SYSTEM DESIGN IS BASED UPON AN AVAILABLE WATER PRESSURE OF 71.01 P.S.I. AT A FLOW RATE OF 40 G.P.M.. INDIVIDUAL STATIONS ARE DESIGNED TO THIS MINIMUM P.S.I.. THE SYSTEM IS ALSO DESIGNED TO WITHSTAND A MAXIMUM PRESSURE OF 40 P.S.I.. CONTRACTOR SHALL VERIFY THE SIZE OF THE EXISTING WATER SUPPLY/ METER AND THE EXISTING OPERATING WATER PRESSURE AT THE WATER SUPPLY LOCATION SHOWN ON THE DRAWINGS PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE PARK PROJECTS INSPECTOR IN WRITING OF ANY DISCREPANCIES NOTED. FAILURE TO PROVIDE SUCH WRITTEN NOTIFICATION MAY CAUSE THE CONTRACTOR TO PROVIDE FOR MODIFICATIONS TO THE IRRIGATION SYSTEM AS NECESSARY TO PROVIDE FOR A FULLY OPERATIONAL SYSTEM PROVIDING 100% COVERAGE AT THE OPERATING PRESSURE AVAILABLE, ALL AT NO ADDITIONAL COST TO THE CITY.
2) CONNECTION TO, OR THE INSTALLATION OF, THE WATER SUPPLY SHALL BE AT THE LOCATION SHOWN ON THE DRAWINGS. MINOR CHANGES CAUSED BY ACTUAL SITE CONDITIONS SHALL BE MADE AT NO ADDITIONAL COST TO THE CITY.
B. ELECTRICAL SERVICE:
THE CONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE AS NECESSARY AND MAKE 120V CONNECTION TO THE IRRIGATION CONTROLLER.
C. CODE REQUIREMENTS:
PRIOR TO ALL WORK OF THIS SECTION, THE CONTRACTOR SHALL CAREFULLY INSPECT THE INSTALLED WORK OF ALL OTHER TRADES AND VERIFY THAT ALL SUCH WORK IS COMPLETE TO THE POINT WHERE THIS INSTALLATION MAY PROPERLY COMMENCE. VERIFY THAT THE IRRIGATION SYSTEM MAY BE INSTALLED IN STRICT ACCORDANCE WITH ALL PERTINENT CODES AND REGULATIONS, THE ORIGINAL DESIGN, THE REFERENCED STANDARDS, AND THE MANUFACTURER'S RECOMMENDATIONS.
IN THE EVENT ANY EQUIPMENT OR METHODS INDICATED ON THE DRAWINGS OR IN THE SPECIFICATIONS IS IN CONFLICT WITH LOCAL CODES, IMMEDIATELY NOTIFY THE PARK PROJECTS INSPECTOR PRIOR TO INSTALLING THE WORK. IF THIS NOTIFICATION IS NOT PROVIDED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR THE COST OF ALL REVISIONS NECESSARY TO COMPLY WITH ALL CODES.
D. GRADES:
BEFORE STARTING WORK OF THIS SECTION, THE CONTRACTOR SHALL OBTAIN THE WRITTEN ACCEPTANCE OF THE CITY OF THE FINE GRADES, AND WRITTEN AUTHORIZATION FOR THE WORK OF THIS SECTION TO PROCEED. THE CONTRACTOR IS TO KEEP WITHIN THE SPECIFIED MATERIAL DEPTHS WITH RESPECT TO FINISH GRADE. FAILURE TO OBTAIN SUCH WRITTEN ACCEPTANCE MAY SUBJECT THE CONTRACTOR TO ADJUSTING THE GRADES OR DEPTH OF LINES IN ORDER TO ACHIEVE ACCEPTABLE DEPTHS OF COVER, ALL AS DIRECTED BY THE CITY AND AT NO ADDITIONAL COST TO THE CITY.
E. COORDINATION WITH WORK OF OTHER TRADES:
MAKE ALL NECESSARY MEASUREMENTS IN THE FIELD TO ENSURE PRECISE FIT OF ITEMS IN ACCORDANCE WITH THE ORIGINAL DESIGN. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL IRRIGATION MATERIALS WITH ALL OTHER WORK. SPECIAL ATTENTION SHALL BE GIVEN TO COORDINATION OF PIPING LOCATONS VERSUS TREE AND SHRUB LOCATIONS AND SLEEVE LOCATIONS VERSUS PAVEMENT INSTALLATION TO AVOID CONFLICTS.
F. THE CONTRACTOR SHALL MAINTAIN RECORD DRAWING BLUEPRINTS ON SITE AT ALL TIMES. UPON COMPLETION OF THE WORK, TRANSFER ALL "AS-BUILT" INFORMATION ON CHANGES AND DIMENSIONS TO REPRODUCIBLE SEPIA PRINTS. THE CHANGES AND DIMENSIONS SHALL BE RECORDED IN A LEGIBLE AND WORKMANLIKE MANNER, TO THE SATISFACTION OF THE PARK PROJECTS INSPECTOR.

3.02 TRENCHING AND BACKFILLING
A. TRENCHING
(1) ADD THE FOLLOWING TO STANDARD SPECIFICATIONS SECTION 308-2.2: DIG TRENCHES AND SUPPORT PIPE CONTINUOUSLY ON BOTTOM OF DITCH. WHERE LINES OCCUR UNDER PAVED AREAS, DEPTH DIMENSIONS SHALL BE CONSIDERED BELOW SUBGRADE.
(2) AMEND STANDARD SPECIFICATIONS SECTION 308-2.2, SUBPARAGRAPH 2) TO READ: WATER LINES CONTINUOUSLY PRESSURIZED - MINIMUM 18 INCHES, MAXIMUM 24 INCHES. (THESE MEASUREMENTS ARE TO BE FROM SUBGRADE ELEVATION FOR PIPING UNER PAVEMENT.)
(3) AMEND STANDARD SPECIFICATIONS SECTION 308-2.2, SUBPARAGRAPH 3) TO READ: LATERAL SPRINGKLER LINES - MINIMUM 12 INCHES AND MAXIMUM 16 INCHES.
(4) ADD THE FOLLOWING TO STANDARD SPECIFICATIONS SECTION 308-2.2: WHERE IT IS NECESSARY TO EXCAVATE ADJACENT TO EXISTING TREES, THE CONTRACTOR SHALL AVOID INJURY TO TREES AND TREE ROOTS. EXCAVATION IN AREAS WHERE 2-INCH AND LARGER ROOTS OCCUR SHALL BE DONE BY HAND. ALL ROOTS 2 INCHES AND LARGER IN DIAMETER SHALL TUNNELED UNDER AND SHALL BE HEAVILY WRAPPED WITH WET BURLAP TO PREVENT SCARRING OR DRYING. WHERE TRENCHING MACHINE IS RUN CLOSE TO TREES HAVING ROOTS SMALLER THAN 2 INCHES IN DIAMETER, THE WALL OF THE TRENCH ADJACENT TO THE TREE SHALL BE HAND TRIMMED, MAKING A CLEAN CUT THROUGH THE ROOTS. ROOTS 1 INCH AND LARGER IN DIAMETER SHALL BE PAINTED WITH TWO COATS OF TREE SEAL OR APPROVED EQUAL. TRENCHES ADJACENT TO TREES SHALL BE CLOSED WITHIN 24 HOURS.
(5) PERMANENT RESURFACING: ADD THE FOLLOWING TO STANDARD SPECIFICATIONS SECTION 308-5.1: ALL SURFACE IMPROVEMENTS DAMAGED OR REMOVED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE RECONSTRUCTED BY THE CONTRACTOR TO THE SAME DIMENSIONS, EXCEPT FOR PAVEMENT THICKNESS, AND WITH THE SAME TYPE MATERIALS USED IN THE ORIGINAL WORK. TRENCH RESURFACING SHALL BE 1 INCH GREATER IN THICKNESS THAN EXISTING PAVEMENT. CONCRETE PAVEMENT SHALL BE REMOVED AND REPLACED IN "FULL PANELS: WITH NO HORIZONTAL DIMENSION LESS THAN FIVE (5) FEET. CONTRACTOR SHALL REVIEW THE PLANNED LIMITS AND LINES OF CONCRETE REMOVAL AND REPLACMENT WITH THE PARK PROJECTS INSPECTOR PRIOR TO SAWCUTTING FOR REMOVAL.
B. BACKFILL
AMEND STANDARD SPECIFICATIONS SECTION 309-2.2 TO READ: BACKFILL SHALL BE UNIFORMLY TAMPED IN 4-INCH LAYERS UNDER AND AROUND THE PIPE FOR THE FULL WIDTH OF THE TRENCH AND THE FULL LENGTH OF THE PIPE. MATERIALS SHALL BE SUFFICIENTLY DAMP TO PERMIT THOROUGH COMPACTION, FREE OF VOIDS. BACKFILL SHALL BE COMPACTED TO DRY DENSITY EQUAL TO ADJACENT UNDISTURBED SOIL AND SHALL CONFORM TO ADJACENT GRADES.
FLOODING IN LIEU OF TAMPING IS NOT ALLOWED WITHOUT SPECIFIC PRIOR WRITTEN APPROVAL OF THE SOILS ENGINEER AND THE PARK PROJECTS INSPECTOR.
UNDER NO CIRCUMSTANCES SHALL THE WHEELS OF ANY VEHICLE NOT FOR THE PURPOSE OF SOILS COMPACTION BE USED TO COMPACT BACKFILL.

3.03 PIPE INSTALLATION
A. GENERAL: ADD THE FOLLOWING TO STANDARD SPECIFICATIONS SECTION 308-5.2.1:
(1) PIPING UNDER EXISTING PAVEMENT MAY BE INSTALLED BY JACKING, BORING, OR HYDRAULIC DRIVING. HOWEVER, NO HYDRAULIC DRIVING IS PERMITTED UNDER ASPHALTIC CONCRETE PAVEMENT.
(2) CUTTING OR BREAKING OF EXISTING PAVEMENT IS NOT PERMITTED EXCEPT AS APPROVED BY PARK PROJECTS INSPECTOR. WHEN APPROVED, ALL NECESSARY REPAIRS AND REPLACEMENTS WILL BE MADE AT NO ADDITIONAL COST TO THE CITY.
(3) CAREFULLY INSPECT ALL PIPE AND FITTINGS BEFORE INSTALLATION, REMOVING ALL DIRT, SCALE AND BURRS AND REAMING; INSTALL PIPE WITH ALL MARKINGS UP FOR VISUAL INSPECTION AND VERIFICATON.
(4) CONTRACTOR SHALL INSTALL CONCRETE THRUST BLOCKING PER THE MANUFACTURER'S RECOMMENDATIONS AT ALL CHANGES OF DIRECTION AND TERMINAL POINTS OF PRESSURE PIPE.
(5) PARALLEL LINES SHALL NOT BE INSTALLED DIRECTLY OVER ONE ANOTHER. PROVIDE A MINIMUM OF 12" HORIZONTAL SEPARATION FOR ALL PARALLEL LINES.
(6) FOR PLASTIC-TO-METAL CONNECTIONS, WORK THE METAL CONNECTIONS FIRST. USE A NON-HARDENING PIPE DOPE ON ALL THREADED PLASTIC-TO-METAL CONNECTIONS, EXCEPT WHERE NOTED OTHERWISE.
(7) ALL PIPING UNDER PAVEMENT SHALL BE SLEEVED USING SCHEDULE 40 PVC SLEEVES. EACH LINE SHALL BE SEPARATELY SLEEVED.
(8) DO NOT INSTALL MULTIPLE ASSEMBLIES ("MANIFOLD") ON PLASTIC LINES. PROVIDE EACH EQUIPMENT ASSEMBLY (E.G. RCV, QUICK COUPLER, GATE VALVE, HEAD, BACKFLOW DEVICE) WITH ITS OWN CONNECTION TO ITS SERVICE LINE.
B. PLASTIC PIPE: ADD THE FOLLOWING TO STANDARD SPECIFICATIONS SECTION 308-5.2.3:
(1) EXERCISE CARE IN HANDLING, LOADING, UNLOADING AND STORING PLASTIC PIPE AND FITTINGS, STORE PLASTIC PIPE AND FITTINGS UNDER COVER UNTIL READY TO INSTALL; TRANSPORT PLASTIC PIPE ON A VEHICLE WITH A BED LONG ENOUGH TO ALLOW PIPE TO LAY FLAT, AVOID UNDUE BENDING AND ANY CONCENTRATED EXTERNAL LOAD.
(2) 360 DEGREE APPLICATORS SHALL BE USED TO APPLY PRIMER AND SOLVENT ON PIPE SIZES 2-1/2 INCHES AND LARGER.

3.04 BACKFLOW INSTALLATION:
ADD THE FOLLOWING TO STANDARD SPECIFICATIONS SECTION 308-5.3: INSTALL BACKFLOW ASSEMBLIES AT LOCATIONS APPROVED IN THE FIELD BY THE PARK PROJECTS INSPECTOR AND AT HEIGHTS REQUIRED BY LOCAL CODES.

3.05 VALVE AND VALVE BOX INSTALLATION:
AMEND STANDARD SPECIFICATIONS SECTION 308-5.3 TO READ: VALVES SHALL BE THE SAME SIZE AS THE PIPELINE IN WHICH THEY ARE INSTALLED UNLESS OTHERWISE SPECIFIED ON PLANS. VALVES SHALL BE INSTALLED A MINIMUM OF THREE FEET IN HORIZONTAL DISTANCE APART, EACH WITH ITS OWN CONNECTION TO THE PRESSURE MAIN LINE.

REGISTERED LANDSCAPE ARCHITECT
ROGER G. BECK LICENSE NO. 2771
Signature
Date 9/16/92
STATE OF CALIFORNIA

LAND DESIGN STUDIO
LANDSCAPE ARCHITECTS
ROGER G. BECK PRESIDENT
33666 PEQUITO DRIVE DANA POINT, CA 92629
(714) 496-1754

SIGNATURE BLOCK

M. Hutchinson 10-21-92 PARKS & REC.	N/A ELECTRIC
N/A WATER	B. Millosovic 9/29/92 PLANNING

MARK	REVISIONS	APPR.	DATE

DESIGNED BY_____ DRAWN BY_____ CHECKED BY_____

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	11/10/92	
PARK DEPARTMENT	10-21-92	
TRAFFIC DIVISION	—	—
CHIEF P. W. ENGINEER	11/16/92	
	11/10/92	

APPROVED BY
PUBLIC WORKS DIRECTOR
DATE 11/18/92

REVERSE FRONTAGE AND MEDIAN LANDSCAPE PLAN

SPECIFICATIONS

HORIZ. SCALE: 1" = VERT. SCALE: 1" =

ACCOUNT NO.
R3268L
L13
SHEET 14 OF 21

PC 3425-R/M

DR-64-912 INDEXED 1-8-97

AMEND STANDARD SPECIFICATIONS SECTION 308-5.3 TO READ: INSTALL QUICK COUPLERS AND VALVE BOXES PER PARKS AND RECREATION DEPARTMENT STANDARD DETAILS.
ADD THE FOLLOWING TO STANDARD SPECIFICATIONS SECTION 308-5.3: VALVES SHALL BE INSTALLED IN SHRUB AREAS WHENEVER POSSIBLE. NO VALVES OR VALVE BOXES OTHER THAN QUICK COUPLER VALVES SHALL BE INSTALLED WITHIN A DESIGNATED ATHLETIC PLAYING FIELD.

3.06 SPRINKLER HEAD INSTALLATION
AMEND STANDARD SPECIFICATIONS SECTION 308-5.4.1 TO READ: SPRINKLER HEADS SHALL BE INSTALLED AS DESIGNATED ON THE DRAWINGS AND PER PARKS AND RECREATION STANDARD DETAILS. UPON COVERAGE TESTING OF THE SYSTEM, IF 100% COVERAGE IS NOT AFFORDED BY THE SYSTEM AS DESIGNED, ADDITIONAL HEADS SHALL BE ADDED AS NECESSARY TO ACHIEVE 100% COVERAGE. UP TO 5% OF THE TOTAL NUMBER OF HEADS IN THE SYSTEM ARE TO BE ADDED AT NO ADDITIONAL COST TO THE CITY. IF A GREATER NUMBER OF HEADS IS NEEDED, COST SHALL BE AS NEGOTIATED BY CHANGE ORDER.

3.07 CONTROLLER INSTALLATION:
ADD THE FOLLOWING TO STANDARD SPECIFICATIONS SECTION 308-5.3: THE CONTROLLER LOCATION, AS SHOWN ON THE PLANS, IS DIAGRAMMATIC. THE FINAL LOCATION OF THE CONTROLLER SHALL BE AS APPROVED BY THE PARK PROJECTS INSPECTOR BEFORE INSTALLATION. THE CONTRACTOR SHALL COORDINATE THE ELECTRICAL SERVICE WITH THIS LOCATION. THE CONTROLLER SHALL BE WALL MOUNTED WITHIN A LE MEUR VANDAL RESISTENT ENCLOSURE, UNLESS NOTED OTHERWISE ON THE PLAN. CONTROLLER ENCLOSURE SHALL BE LOCATED IN SHRUB AREAS AND/OR ADJACENT TO OTHER HARDSCAPE ITEMS. ENCLOSURE SHALL BE PAINTED WITH TWO COATS OF PAINT, COLOR AS APPROVED; SUBMIT SAMPLES. A 4" THICK CONCRETE SLAB FOR MAINTENANCE ACCESS SHALL BE PROVIDED, SIZE APPROXIMATELY 15 SQ. FT., LINE, GRADE AND DIMENSIONS AS DIRECTED BY THE PARK PROJECTS INSPECTOR.
FOLLOWING ESTABLISHMENT OF THE TURF, THE IRRIGATION SYSTEM SHALL BE PROGRAMMED TO OPERATE DURING THE PERIODS OF MINIMAL USE OF THE PROJECT AREA (I.E., 11:00 P.M. THROUGH 6:00 A.M.).

3.08 WIRING
ADD THE FOLLOWING TO STANDARD SPECIFICATIONS SECTION 308-5.5: ALL SPLICE CONNECTIONS SHALL OCCUR IN A VALVE BOX. ALL WIRE RUNS BETWEEN THE VALVE AND THE CONTROLLER SHALL BE A CONTINUOUS RUN WITH NO SPLICES UNLESS NOTED OTHERWISE ON THE PLAN.
ALL LOW VOLTAGE WIRING SPLICES SHALL BE MADE-UP AS SOLDERED CONNECTIONS, WRAPPED WITH A MINIMUM OF TWO (2) LAYERS OF ELECTRICAL TAPE AND SEALED WITH SCOTCH-COAT. SCOTCH-LOK, UNI-PACK, PENN-TITE, OR OTHER SIMILAR TYPE CONENCTORS ARE NOT ACCEPTABLE.

3.09 FINISHING AND TESTING:
ADD THE FOLLOWING TO STANDARD SPECIFICATIONS SECTION 308-5.6.2: CENTERLOAD ALL PLASTIC PIPE PRIOR TO PRESSURE TESTING. AMEND STANDARD SPECIFICATIONS SECTION 308-5.6.2 TO READ: PRESSURE TEST THE MAINS - MINIMUM 2 HOURS AT 150 PSI. ADD THE FOLLOWING TO STANDARD SPECIFICATIONS SECTION 308-5.6.2: THE ENTIRE SYSTEM SHALL BE OPERATING PROPERLY BEFORE ANY PLANTING OPERATIONS COMMENCE.

3.10 COMPLETION CLEANING:
ADD THE FOLLOWING TO STANDARD SPECIFICATIONS SECTION 308: UPON COMPLETION OF THE WORK, CONTRACTOR SHALL SMOOTH ALL GROUND SURFACES, REMOVE EXCESS MATERIALS, RUBBISH, DEBRIS, ETC., SWEEP ADJACENT STREETS, CURBS, GUTTERS, WALKWAYS AND TRAILS, AND REMOVE CONSTRUCTION EQUIPMENT FROM THE PREMISES.

END OF SECTION

SECTION 02480 - PLANTING

PART 1 - GENERAL

1.01 RELATED DOCUMENTS:
THE PROVISIONS OF THE "STANDARD SPECTIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" SHALL APPLY EXCEPT AS MODIFIED HEREIN.

1.02 SCOPE:
THE WORK REQUIRED IS INDICATED ON THE DRAWINGS AND INCLUDES, BUT IS NOT NECESSARILY LIMITED TO: SOIL PREPARATION; FINISH GRADING (AS DISTINGUISHED FROM FINE GRADING PER SECTION 02210); PLANTING TREES GUYING AND STAKING TREES; PLANTING SHRUBS AND GROUNDCOVER; HYDROSEEDING TURF; SOIL EROSION CONTROL; MAINTENANCE; PLANT ESTABLISHMENT; GUARANTEES; AND REPLACEMENTS.

1.03 SOILS TEST:
THE CONTRACTOR SHALL NOTIFY THE PARK PROJECTS INSPECTOR UPON COMPLETION OF FINE GRADING AND PRIOR TO COMMENCEMENT OF SOIL PREPARATION WORK. THE CONTRACTOR WILL OBTAIN AGRONOMIC SOILS TESTS FOR ALL PLANTING AREAS AFTER COMPLETION OF FINE GRADING AND PRIOR TO START OF SOIL PREPARATION WORK. TESTS WILL BE PERFORMED BY AN APPROVED AGRONOMIC SOILS TESTING LABORATORY AND WILL INCLUDE A FERTILITY AND SUITABILITY ANALYSIS WITH WRITTEN RECOMMENDATIONS SHALL TAKE PRECEDENCE OVER THE MINIMUM AMENDMENT AND FERTILIZER APPLICATION RATES SPECIFIED HEREIN ONLY WHEN THEY EXCEED THE SPECIFIED MINIMUMS. CONTRACTOR SHALL ALLOW A MINIMUM TWO WEEK PERIOD FOR THE SOILS TESTING WORK COMMENCING UPON ACCEPTANCE OF THE FINE GRADING WORK PER SECTION 02210 BY THE PARK PROJECTS INSPECTOR.

1.04 GUARANTEE:
THE GUARANTEE PROVISIONS OF THE SPECIAL PROVISIONS ARE SUPPLEMENTED AS FOLLOWS AS THEY PERTAIN TO THE TREE PLANTING PORTION OF THE WORK:
A. ALL TREES INSTALLED UNDER THE CONTRACT SHALL BE GUARANTEED AGAINST ANY AND ALL POOR, INADEQUATE OR INFERIOR MATERIALS AND/OR WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FOLLOWING FINAL ACCEPTANCE.
B. DURING THE GUARANTEE PERIOD, ANY TREES FOUND TO BE DEAD, MISSING, OR IN POOR CONDITION SHALL BE REPLACED BY THE CONTRACTOR WITHIN TEN (10) DAYS OF WRITTEN NOTIFICATION. PARK AND RECREATION DEPARTMENT SHALL BE THE SOLE JUDGE AS TO THE CONDITION OF THE TREES.
C. REPLACEMENT SHALL BE MADE IN ACCORDANCE WITH CITY STANDARDS.
D. MATERIAL AND LABOR INVOLVED IN REPLACING TREES SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY.

1.05 INSPECTIONS:
INSPECTIONS WILL BE REQUIRED. THE CONTRACTOR SHALL CONTACT THE PARK PROJECTS INSPECTOR AT LEAST 48 HOURS (2 WORKING DAYS) IN ADVANCE OF AN ANTICIPATED INSPECTION. AN INSPECTION WILL BE REQUIRED AT EACH OF THE STEPS LISTED BELOW:
A. UPON COMPLETION OF FINE GRADING AND PRIOR TO COMMENCEMENT OF SOIL PREPARATION, FOR ACCEPTANCE OF FINE GRADING WORK AND TAKING OF SOILS SAMPLES.
B. INSPECTION OF COMPLETED FINISH GRADING WORK FOLLOWING SOIL PREPARATION WORK.
C. WHEN CONTAINER PLANTS AND/OR BARE ROOT STOCK ARE SPOTTED FOR PLANTING, BUT BEFORE PLANTING HOLES ARE EXCAVATED.
D. WHEN PLANTING AND ALL OTHER INDICATED OR SPECIFIED WORK HAS BEEN COMPLETED.
E. DURING APPLICATION OF PRE-EMERGENT CHEMICAL.
F. AT START OF PLANT ESTABLISHMENT PERIOD.
G. AT END OF THE PLANT ESTABLISHMENT PERIOD, PRIOR TO FINAL ACCEPTANCE OF THE PROJECT FOR MAINTENANCE BY THE HOA, THIS ACCEPTANCE FOR MAINENANCE WILL BE CONFIRMED IN WRITING BY THE PARK AND RECREATION DEPARTMENT.

1.06 SUBMITTALS:
A. THE FOLLOWING WRITTEN CERTIFICATIONS ARE REQUIRED TO BE SUBMITTED TO THE PARK PROJECTS INSPECTOR UPON DELIVERY OF THE RESPECTIVE MATERIALS TO THE JOB SITE:
TOTAL QUANTITY OF COMMERCIAL FERTILIZERS, BY TYPE
TOTAL QUANTITY OF SOIL AMENDMENTS AND CONDITIONERS, BY TYPE
TOTAL QUANTITY OF SEED, BY TYPE
TOTAL QUANTITY OF MULCH
TOTAL QUANTITY OF IRON SULPHATE

1.07 PLANT ESTABLISHMENT PERIOD:
THE LENGTH OF THE PLANT ESTABLISHMENT PERIOD SHALL BE AS SPECIFIED IN SECTION 6-7.4 OF THE SPECIAL PROVISIONS; SEE ALSO SUBSECTION 3.11 OF THIS SECTION REGARDING START OF PLANT ESTABLISHMENT PERIOD.

PART 2 - MATERIALS

2.01 GENERAL:
ALL MATERIALS SHALL CONFORM WITH SECTION 212 OF THE STANDARD SPECIFICATIONS EXCEPT AS MODIFIED HEREIN.

2.02 FERTILIZER, SOIL AMENDMENTS AND CONDITIONERS:
ADD THE FOLLOWING TO STANDARD SPECIFICATIONS SECTION 212-1.2.3:
A. PLANTING TABLETS: TIGHTLY COMPRESSED LONG-LASTING, SLOW-RELEASE FERTILIZER TABLETS WEIGHING 21 GRAMS, WITH A POTENTIAL ACIDITY OF NOT MORE THAN 5 % BY WEIGHT AND HAVING AN ANALYSIS OF 20-10-5 DERIVED FROM THE SOURCES LISTED IN THE FOLLOWING GUARANTEED ANALYSIS:

GUARANTEED ANALYSIS
TOTAL NITROGEN (N) 20%
DERIVED FROM UREA FORMALDEHYDE
7.0 % WATER SOLUBLE NITROGEN
13.0 % WATE INSOLUBLE NITROGEN
AVAILABLE PHOSPHORIC ACID (P205) 10%
DERIVED FROM CALCIUM PHOSPHATE
SOLUABLE POTASH (K2O) 5%
COMBINED CALCIUM (Ca) 2.6%
DERIVED FROM CALCIUM PHOSPHATES
COMBINED SULFER (S) 1.6%
DERIVED FROM FERROUS AND POTASSIUM SULFATES
IRON (EXPRESSED AS ELEMENTAL Fe) 35%
DERIVED FROM FERROUS SULFATE

B. COMMERCIAL FERTILIZER SHALL BEAR THE MANUFACTURER'S GUARANTEED STATEMENT OF ANALYSIS AND SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS: 16% NITROGEN, 6% PHOSPHORIC ACID, AND 8% POTASH.
C. ORGANIC SOIL AMENDMENT:
SHALL BE TYPE 1 ORGANIC SOIL AMENDMENT, WOOD BASED PRODUCT, NITROGEN STABILIZED, AND FREE OF FOREIGN MATTER.
D. SOIL CONDITIONERS:
ADD TO STANDARD SPECIFICATIONS, NEW SECTION 212-1.2.6: INORGANIC CONDITIONERS SHALL BE AGRICULTURAL GRADE GYPSUM, SOIL SULFUR AND IRON SULFATE. IRON SULPHATE SHALL BE FERRIC SULPHATE OR FERROUS SULPHATE IN PELLETED OR GRANULAR FORM CONTAINING NOT LESS THAN 18.5% IRON, EXPRESSED AS METALLIC IRON, AND SHALL BE REGISTERED AS AN AGRICULTURAL MINERAL WITH THE STATE DEPARTMENT OF FOOD AND AGRICULTURAL IN COMPLIANCE WITH CHAPTER 5 "FERTILIZING MATERIALS", OF DIVISION 7 OF THE FOOD AND AGRICULTURE CODE OF CALIFORNIA, COMMENCING AT SECTION 14501.

2.03 SEED:

ADD THE FOLLOWING TO STANDARD SPECIFICATIONS SECTION 212-1.3:

MARATHON II SEED MIX	13 LBS./1,000 S.F.
CELLUSE	50 LBS./1,000 S.F.
ORGANIC BINDER	3 LBS./1,000 S.F.
15-15-15 FERTILIZER	10 LBS./1,000 S.F.

2.04 HYDROSEEDING MATERIALS:
ADD THE FOLLOWING TO STANDARD SPECIFICATIONS SECTION 212-1.3:
WATER: ALL WATER USED FOR HYDROSEEDING SHALL BE POTABLE DOMESTIC WATER. SEE GENERAL PROVISIONS SECTION 7-8.5 REGARDING AVAILABLITY OF WATER AND TEMPORARY CONSTRUCTION METER AND CHARGES FOR WATER DRAWN FROM CITY FIRE HYDRANTS.
SEED: TURF SEED MIX AS SPECIFIED.
FIBER MULCH: SHALL BE PRODUCED FROM CELLULOSE SUCH AS WOOD PULP OR SIMILAR ORGANIC MATERIAL AND SHALL BE OF SUCH CHARACTER THAT IT WILL DISPURSE INTO A UNIFORM SLURRY WHEN MIXED WITH WATER. THE FIBER SHALL BE OF SUCH CHARACTER THAT WHEN USED IN THE APPLIED MIXTURE, AN ABSORPTIVE OR POROUS MAT, BUT NOT A MEMBRANE, WILL RESULT ON THE SURFACE OF THE GROUND. MATERIALS WHICH INHIBIT GERMINATION OR GROWTH SHALL NOT BE PRESENT IN THE MIXTURE.
BINDING AGENT: SHALL BE A DRY POWDER ORGANIC CONCENTRATE, ECOLOGY CONTROLS "M-BINDER" AS AVAILABLE FROM ROBINSON FERTILIZER COMPANY, ANAHEIM, CA 714/632-9715, OR CITY APPROVED EQUAL.
FERTILIZERS:
A. CONTROLLED RELEASE FERTILIZER (CRF) SHALL HAVE AN ANALYSIS OF 17-7-10 (+IRON), 9-12 MO. FORMULATION RESIN COATED PRILLS, "SIERRABLEN" AS MANUFACTURED BY GRACE SIERRA CHEMICAL CO., MILPITAS, CA., 1-800-492-8255 OR CITY APPROVED EQUAL.
B. SINGLE SUPER PHOSHATE SHALL HAVE AN ANALYSIS OF 0-18-0, AND SHALL BE AS MANUFACTURED BY GRACE-SIERRA, OR CITY APPROVED EQUAL.

2.05 PLANTS:
A. ADD THE FOLLOWING TO STANDARD SPECIFICATIONS SECTION 212-1.4.1: ALL PLANTS SHALL BE TRUE TO NAME, AND ONE OF EACH BUNDLE OR LOT SHALL BE TAGGED WITH THE NAME AND SIZE OF PLANTS IN ACCORDANCE WITH THE STANDARDS OF PRACTICE RECOMMENDED BY THE AMERICAN ASSOCIATION OF NURSERYMAN. THE ROOT CONDITION OF PLANTS FURNISHED IN CONTAINERS SHALL BE DETERMINED BY REMOVAL OF EARTH FROM THE ROOTS OF NOT LESS THAN TWO PLANTS NOR MORE THAN 2% OF THE TOTAL NUMBER OF PLANTS OF EACH SPECIES OR VARIETY EXCEPT WHEN CONTAINER-GROWN PLANTS ARE FROM SEVERAL DIFFERENT SOURCES; IN WHICH CASE, THE ROOTS OF NOT LESS THAN TWO PLANTS OF EACH SPECIES OR VARIETY FROM EACH SOURCE SHALL BE CHECKED BY THE PARK PROJECTS INSPECTOR AT HIS OPTION. THE SELECTION OF PLANTS TO BE CHECKED WILL BE MADE BY THE PARK PROJECTS INSPECTOR.
ALL PLANTS RENDERED UNSUITABLE FOR PLANTING SHALL BE CONSIDERED AS SAMPLES, AND REPLACEMENTS SHALL BE PROVIDED AT NO ADDITIONAL COST. IN CASE THE SAMPLE PLANTS ARE FOUND TO BE DEFECTIVE, THE ENTIRE LOT OR LOTS OF PLANTS REPRESENTED BY THE DEFECTIVE SAMPLES WILL BE REJECTED.
B. AMEND THE STANDARD SPECIFICATIONS SECTION 212-1.4.2 AND 212.1.4.3: ALL CONTAINER PLANTS SUPPLIED BY THE CONTRACTOR SHALL BE OF THE SPECIFIED STANDARD HEIGHT AND DIAMETER SET BY THE AMERICAN STANDARD FOR NURSEY STOCK. THE HEIGHT OF THE TREES SHALL BE MEASURED FROM THE ROOT CROWN TO THE LAST DIVISION OF THE TERMINAL LEADER AND THE DIAMETER SHALL BE MEASURED SIX (6) INCHES ABOVE THE CROWN ROOTS.
C. MODIFY STANDARD SPECIFICATIONS SECTION 212-1.4.6: ALL CUTTINGS USED ON THE PROJECT SHALL BE FULLY ROOTED CUTTINGS UNLESS OTHERWISE APPROVED IN WRITING BY THE CITY.
D. BARE ROOT STOCK SHALL CONFORM TO THE AMERICAN NURSERYMAN'S ASSOCIATION STANDARDS. MINIMUM CALIPER SHALL BE TWO (2) INCH DIAMETER AND MINIMUM HEIGHT SHALL BE TWELVE (12) FEET.

2.06 HEADERS, STAKES AND TIES:
A. ADD THE FOLLOWING TO STANDARD SPECIFICATIONS SECTION 212-1.5.3:
(1) TREE STAKES SHALL BE STRAIGHT-GRAINED LODGEPOLE PINE, OR CITY APPROVED EQUAL. STAKES SHALL BE FREE FROM KNOTS, CHECKS, SPLIT, OR DISFIGUREMENTS.
(2) TREE TIES SHALL BE MADE FROM TIRE CASING, 22" LONG BY 3/4" WIDE, FASTENED TO TREE STAKE WITH TWO GALVANIZED 5d ROOFING NAILS EACH.
B. ADD THE FOLLOWING NEW SECTION TO STANDARD SPECIFICATIONS SECTION 212-1.5.4, CONCRETE HEADERS/MOW CURBING - CONCRETE SHALL BE 5 SACK MIX WITH A MAXIMUM SLUMP TEST OF FOUR INCHES (4"). PROVIDE SUFFICENT CONCRETE FORMING AND STAKES (MAXIMUM 3' O.C.) TO PROVIDE CONTINUOUS LINE WITHOUT WAVING.

2.07 JUTE NETTING:
JUTE NETTING SHALL BE NEW AND SHALL BE OF UNIFORM, PLAIN-WEAVE, FLAME-RETARDANT MESH. THE MESH SHALL BE DYED GREEN AND SHALL BE MADE FROM UNBLEACHED SINGLE JUTE YARN. THE YARN SHALL BE OF LOOSELY TWISTED CONSTRUCTION AND SHALL NOT VARY IN THICKNESS BY MORE THAN ONE-HALF ITS NORMAL DIAMETER. JUTE NETTING SHALL BE FURNISHED IN ROLLED STRIPS AND SHALL MEET THE FOLLOWING REQUIREMENTS:
WIDTH - 48 INCHES, WITH A TOLERANCE OF ONE INCH WIDER OR NARROWER.
MINIMUM 78 WARP ENDS PER WIDTH OF ROLL.
MINIMUM 41 WEFT ENDS PER YARD OF LENGTH.
WEIGHT SHALL AVERAGE 1.22 POUNDS PER LINEAR YARD, WITH A TOLERANCE OF 5% HEAVIER OR LIGHTER.

PART 3 - EXECUTION

3.01 GENERAL:
ALL WORK SHALL CONFORM WITH SECTION 308 OF THE STANDARD SPECIFICATION, EXCEPT AS MODIFIED HEREIN.
AT THE CONTRACTOR'S OPTION, SUBJECT TO THE PARK PROJECT INSPECTOR'S ACCEPTANCE OF THE MATERIAL AVAILABLE AND THE APPROPRIATENESS OF THE PLANTING SEASON, BARE ROOT STOCK MAY BE SUBSTITUTED FOR 15 GALLON AND 24" BOX TREE SPECIES SPECIFIED IF COMMERCIALLY AVAILABLE AS BARE ROOT PLANTINGS AND PROVIDED THE MINIMUM CALIPRE AND HEIGHT REQUIREMENTS OF SUBSECTION 2.05 SUBPARAGRAPH D ABOVE ARE MET, ALL AT NO CHANGE IN CONTRACT PRICE.

3.02 WEED CONTROL MEASURES:
ADD THE FOLLOWING TO STANDARD SPECIFICATIONS SECTION 308-2.4:
A. UPON COMPLETION OF ALL FINE GRADING WORK PER SECTION 02210 GRADING, AND PRIOR TO SOIL PREPARATION, PERFORM WEED CONTROL MEASURES AS FOLLOWS:
1. IRRIGATE ALL AREAS DESIGNATED TO BE PLANTED FOR A MINIMUM OF 10 MINUTES PER SETTING, TWO SETTINGS PER DAY FOR SEVEN DAYS TO GERMINATE ALL WEED SEED POSSIBLE.
2. APPLY A CONTACT WEED KILLER AND ALLOW SUFFICIENT TIME TO OBTAIN COMPLETE KILL OF ALL WEEDS GERMINATED.
3. REPEAT STEP ONE ABOVE.
4. REPEAT STEP TWO ABOVE.

3.03 SOIL PREPARATION:
ADD THE FOLLOWING TO STANDARD SPECIFICATIONS SECTION 308-2.3:
A. ALL FINE GRADING AND MOUNDING PER SECTION 02210 AND WEED CONTROL MEASURES SHALL BE COMPLETED PRIOR TO SOIL PREPARATION.
B. THIS WORK SHALL NOT COMMENCE UNTIL THE AGRONOMIC SOILS TEST HAS BEEN COMPLETED. SHOULD 30 CALENDAR DAYS ELAPSE BETWEEN COMPLETION OF SOIL PREPARATION AND COMMENCEMENT OF PLANTING, ALL AREAS SHALL BE PREPARED AGAIN.
C. PLANTING AREAS WITH SLOPES 3:1 AND STEEPER SHALL NOT BE SOIL PREPARED. IN LIEU OF SOIL PREPARATION, SUCH SLOPES WILL REQUIRE FERTILIZER TABLETS FOR ALL PLANTINGS PER SECTION 3.05, C. BELOW. IN ALL PLANTING AREAS WITH GRADIENTS LESS THAN 3:1, A LAYER OF SOIL AMENDMENTS SHALL BE SPREAD AND ROTOTILLED INTO THE SOIL TO A MINIMUM DEPTH OF 4 INCHES, OR AS RECOMMENDED BY THE SOILS REPORT, SO THAT THE SOIL SHALL BE LOOSE, FRIABLE, AND FREE FROM ROCKS, STICKS, AND OTHER OBJECTS UNDESIRABLE TO PLANTING.

D. THE FOLLOWING SOIL AMENDMENTS SHALL BE ADDED PER 1,000 SQUARE FEET TO ALL PLANTING AREAS WITH GRADIENTS LESS THAN 3:1 (AGRONOMIC SOIL TEST RECOMMENDATIONS SHALL TAKE PRECEDENCE WHERE THESE MINIMUM AMOUNTS ARE EXCEEDED):
(1) 6 CUBIC YARDS TYPE I ORGANIC SOIL AMENDMENT.
(2) 15 POUNDS COMMERCIAL FERTILIZER.
(3) 100 POUNDS GYPSUM.
(4) SOIL SULFUR PER SOILS REPORT.

3.04 FINISH GRADING:
THE CONTRACTOR SHALL FINISH GRADE ALL PLANTING AREAS FILLING AS NEEDED OR REMOVING SURPLUS DIRT, RAKING TO REMOVE ALL ROCKS AND DEBRIS OVER 1 INCH IN DIAMETER, AND FLOATING TO A SMOOTH UNIFORM GRADE. ALL AREAS SHALL SLOPE TO DRAIN. FLOW LINES SHALL BE ESTABLISHED TO ROADS, CURBS, DRAINAGE SWALES AND INLETS, AND/OR SIDEWALKS AS SHOWN ON THE PLANS AND AS DIRECTED. ALL FILL MATERIAL PLACED WITHIN THE TOP 12" FROM FINISH GRADE ELEVATIONS IN ALL PLANTING AREAS SHALL BE TOPSOIL.
ALL LANDSCAPE AREAS SHALL BE FINISH GRADED, (AS DISTINGUISHED FROM FINE GRADING SPECIFIED IN SECTION 02210) TO "DRESS OUT", MAINTAIN, AND/OR RE-ESTABLISH FINSH GRADES AND FLOW LINES AS APPROVED PRIOR TO AMENDING THE SOIL. CONTRACTOR SHALL CALL FOR INSPECTION UPON COMPLETION OF FINISH GRADING WORK. CONTRACTOR SHALL NOT PROCEED WITH PLANTING WORK UNTIL FINISH GRADES HAVE BEEN INSPECTED AND ACCEPTED BY THE PARK PROJECTS INSPECTOR.

3.05 EROSION CONTROL:
ADD NEW SECTION TO THE STANDARD SPECIFICATIONS: 308-4.9.6 JUTE NETTING: ALL SLOPES AREAS EXCEEDING 3:1 SHALL RECEIVE JUTE NETTING. NETTING SHALL ALSO BE PROVIDED DURING THE MAINENANCE PERIOD, WHEN AND AS DIRECTED BY THE PARK PROJECTS INSPECTOR, ALONG FLOW LINES AND OTHER LOCATIONS WHERE EROSION IS EVIDENT. JUTE NETTING SHALL BE INSTALLED LOOSELY, UP AND DOWN THE SLOPE. THE INSTALLED NETTING SHALL FIT THE SOIL SURFACE CONTOUR AND SHALL BE HELD IN PLACE BY 9-INCH LONG, 11-GAGE (MINIMUM) STEEL WIRE STAPLES DRIVEN VERTICALLY INTO THE SOIL AT APPROXIMATELY 24-INCH SPACING. JUTE NETTING STRIPS SHALL OVERLAP ALONG THE SIDES AT LEAST 6 INCHES. ENDS OF STRIPS SHALL BE BURIED INTO THE SOIL AT LEAST 6 INCHES. LAP ALL ENDS OF ROLLS A MINIMUM OF 24".

3.06 PLANTING BACKFILL:
A. ALL BACKFILL MATERIALS SHALL BE BULK MIXED, NOT INDIVIDUALLY MIXED AT EACH PLANT PIT.
B. SOIL USED FOR BACKFILL OF PLANTING PITS FOR CONTAINER PLANTS SHALL BE ENRICHED USING THE FOLLOWING BLEND PER CUBIC YARD (AGRONOMIC SOIL TEST RECOMMENDATIONS TO BE REVIEWED PRIOR TO SOIL MIXING):
C. BARE ROOT STCK BACKFILL SHALL CONSIST OF 10% WOOD SHAVINGS AND 90% TOP SOIL WITH FERTILIZER AN SOIL CONDITIONERS AS SPECIFIED FOR CONTAINER PLANTS.

3.07 PLANTING:
A. AMEND THE STANDARD SPECIFICATIONS SECTION 308-4.5 TO COORDINATE WITH SECTION 3.06 HEREIN FOR SPECIFIED BACKFILL MIX.
B. ADD THE FOLLOWING TO THE STANDARD SPECIFICATION SECTION 308-4.5:
(1) SOIL SURROUNDING PLANTING PIT SHALL BE IN A FRIABLE CONDITION AND MOIST TO A DEPTH OF 8".
(2) BACKFILL USING SPECIFIED SOIL MIX TO WITHIN 8" OF FINISH GRADE. AT THIS DEPTH, PLACE THE PLANT FERTILIZER TABLETS AGRIFORM 20-10-15, 21 GRAMS EACH, OR CITY APPROVED EQUAL. A MINIMUM OF 1 TABLET FOR 1 GALLON, 3 TABLETS FOR 5 GALLONS, 5 TABLETS FOR 15 GALLONS, AND 8 TABLETS FOR A 24" BOX. COMPLETE BACKFILLING TO FINISH GRADE.
(3) TREES (OTHER THAN RELOCATED PALMS) SHALL BE PLANTED AT SUCH A DEPTH THAT THE CROWN ROOTS BEAR THE SAME RELATIVE POSITION TO FINISH GRADE AS THEY DID TO THE SOILS WHERE THEY WERE GROWN. BACKFILL AFTER PLANTING SHALL BE COMPACTED CAREFULLY INTO PLACE WITHOUT INJURING THE ROOTS OF THE TREE OR BREAKING UP THE BALL OF EARTH SURROUNDING THE ROOTS.
C. ADD THE FOLLOWING TO STANDARD SPECTIFICATIONS SECTION 308-4.7:
(1) ON SLOPES EXCEEDING 3:1 RATIO, APPLY 5 GRAM AGRIFORM TABLETS, ONE PER PLANT IN LIEU OF SOIL PREPARATION WORK.
(2) MULCH AND FERTILIZE GROUNDCOVER AREAS USING 1.5 CUBIC YARDS OF WOOD SHAVINGS AND 5 LBS. OF THE SPECIFIED COMMERCIAL FERTILIZER PER 1,000 SQUARE FEET. REPEAT FERTILIZATION AT 30 DAY INTERVALS THROUGHOUT THE DURATION OF THE CONTRACT UP TO 4 APPLICATIONS, AFTER WHICH DECREASE FREQUENCY TO ONCE EVERY 90 DAYS.
(3) ALL GROUNDCOVER AND BARE DIRT AREAS ARE TO BE TREATED WITH A PRE-EMERGENT CHEMICAL (SUBJECT TO APPROVAL BY THE PARK INSPECTOR PRIOR TO APPLICATION). CHEMICALS ARE TO BE APPLIED BY A LICENSED PEST CONTROL AGENT. THIS TREATMENT SHALL BE APPLIED AT THE FOLLOWING TIMES DURING THE CONTRACT: A) BEFORE PLANTING, B) AT BEGINNING OF PLANT ESTABLISHMENT PERIOD, AND C) AT END OF PLANT ESTABLISHMENT PERIOD. THE PARK PROJECTS INSPECTOR, (714) 782-5223, SHALL BE GIVEN A MINIMUM OF 48 HOURS (2 WORKING DAYS) NOTICE PRIOR TO EACH APPLICATION. NO CHEMICALS SHALL BE APPLIED OTHER THAN IN THE PRESENCE OF THE INSPECTOR.

3.08 TREE STAKING:
AMEND THE STANDARD SPECIFICATIONS SECTION 308-4.6.1 AND 308.4.6.2 TO READ: STAKE TREES PER PARK AND RECREATION DEPARTMENT STANDARD DETAIL.

3.09 TURF PLANTING:
ADD THE FOLLOWING TO STANDARD SPECIFICATIONS SECTION 308-4.8.2, B: MIXING OF HYDROSEED SLURRY: MIXING SHALL BE PERFORMED IN A TANK, WITH A BUILT-IN CONTINUOUS AGITATION AND RECIRCULATION SYSTEM OF SUFFICIENT OPERATING CAPACITY TO PRODUCE A HOMOGENEOUS SLURRY OF FIBER, M-BINDER, SEED, FERTILIZER AND WATER IN THE DESIGNATED UNIT PROPORTIONS.

FIBER MULCH	1,500 LBS/.ACRE
FERTILIZERS:	
CRF	870 LBS./ACRE (20#/1000SF)
SINGLE SUPERPHOSPHATE	200 LBS./ACRE (4 1/2#/1000SF)
SEED	AS SPECIFIED IN SUBSECTION 2.03 ABOVE
BINDING AGENT	100 LBS./ACRE (USE ON ALL SLOPES 5:1 AND STEEPER)
WATER	3,000 GAL./ACRE (MAXIMUM)
AGRICULTURAL GRADE GYPSUM	500 LB./ACRE

WITH AGITATION SYSTEM OPERATIING AT PART SPEED, WATER SHALL BE ADDED TO THE TANK, GOOD RECIRCULATION SHALL BE ESTABLISHED. MATERIALS SHALL BE ADDED IN SUCH A MANNER THAT THEY ARE UNIFORMLY BLENDED INTO THE MIXTURE IN THE FOLLOWING SEQUENCE (ASSUMES A NOMINAL 1500 GALLON TANK):
WHEN TANK IS 1/3 FILLED WITH WATER:
ADD BINDING AGENT - 1/2 ACRE REQUIREMENT
ADD 5 - 50 POUND BALES OF FIBER MULCH
ADD SEED - 1/2 ACRE REQUIREMENT
ADD FERTILIZER - 1/2 ACRE REQUIREMENT
AGITATE MIXTURE AT FULL SPEED WHEN THE TANK IS HALF-FILLED WITH WATER.
ADD REMAINDER FIBER MULCH REQUIREMENT, 10 BALES, BEFORE TANK IS 3/4 FULL. ADD REMAINDER FERTILIZERS, SEED AND GYPSUM. SLURRY DISTRIBUTION SHOULD BEGIN IMMEDIATELY.
AREA TO BE HYDROSEEDED SHALL BE MOISTENED TO A DEPTH OF SIX INCHES JUST PRIOR TO APPLICATION.
APPLICATION: HYDROSEED SLURRY SHALL BE APPLIED UNDER HIGH PRESSURE EVENLY AND RESULT IN A UNIFORM COAT ON ALL AREAS TO BE TREATED. CARE SHALL BE EXERCISED TO ASSURE THAT PLANTS IN PLACE ARE NOT SUBJECTED TO THE DIRECT FORCE OF THE APPLICATION. SLURRY SHALL BE IMMEDIATELY REMOVED FROM WALKS, STRUCTURES, PLANTS, ETC., THAT ARE INADVERTENTLY SPRAYED.
ALL BARE SPOTS SHALL BE RESEEDED BY THE CONTRACTOR WITHIN 10 DAYS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RESEEDED AREAS FOR AS LONG AFTER SEEDING AS NECESSARY UNTIL ACCEPTABLE GERMINATION AND ESTABLISHMENT IS REALIZED AND APPROVED BY THE CITY.
THE SLURRY SHALL NOT BE SPRAYED ON UNDESIGNATED AREAS. ANY SLURRY SPILLED OR SPRAYED INTO AREAS OTHER THAN THOSE DESIGNATED TO RECEIVE SPRAY SHALL BE CLEANED UP AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE CITY.

3.10 WATERING:
ADD THE FOLLOWING TO STANDARD SPECIFICATIONS SECTION 308-4.9.5:
A. IT SHALL BE THE CONTRACTOR'S RESPONSIBLITY TO MAINTAIN A BALANCED WATERING PROGRAM TO ENSURE PROPER GROWTH UNTIL FINAL ACCEPTANCE OF THE WORK.
B. IMMEDIATELY AFTER PLANTING, APPLY WATER TO EACH PLANT. APPLY WATER IN A MODERATE STREAM IN THE PLANTING HOLE UNTIL THE MATERIAL ABOUT THE ROOTS IS COMPLETELY SATURATED FROM THE BOTTOM OF THE HOLE TO THE TOP OF THE GROUND.
C. APPLY WATER IN SUFFICIENT QUANTITIES AND AS OFTEN AS SEASONAL CONDITIONS REQUIRE TO KEEP THE PLANTED AREAS MOIST AT ALL TIMES, WELL BELOW THE ROOT SYSTEM OF PLANTS.
D. IRRIGATION:
(1) CONTRACTOR SHALL PROPERLY AND COMPLETELY MAINTAIN THE IRRIGATION SYSTEM. A BALANCED WATER PROGRAM SHALL BE MAINTAINED TO ENSURE PROPER GERMINATION AND GROWTH UNTIL FINAL ACCEPTANCE OF THE WORK. PLANTS WHICH CANNOT BE WATERED SUFFICIENTLY WITH THE IRRIGATION SYSTEM SHALL BE WATERED BY MEANS OF A HOSE.

REGISTERED LANDSCAPE ARCHITECT
ROGER G. BECK LICENSE NO. 2771
Signature
Date
STATE OF CALIFORNIA

LAND DESIGN STUDIO
LANDSCAPE ARCHITECTS
ROGER G. BECK PRESIDENT
33666 PEQUITO DRIVE DANA POINT, CA 92629
(714) 496-1754

SIGNATURE BLOCK

M Hutchinson 10-21-92 PARKS & REC.	N/A ELECTRIC
N/A WATER	B.A. Miloserie 9/29/92 PLANNING

MARK	REVISIONS	APPR.	DATE

DESIGNED BY______ DRAWN BY______ CHECKED BY______

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	11/10/92	So
PARK DEPARTMENT	10-21-92	MH
TRAFFIC DIVISION	—	—
CHIEF P. W. ENGINEER	11/16/92	AM.G
	11/10/92	WLK

APPROVED BY
PUBLIC WORKS DIRECTOR
DATE 11/18/92

REVERSE FRONTAGE AND MEDIAN LANDSCAPE PLAN

SPECIFICATIONS

HORIZ. SCALE: 1" = VERT. SCALE: 1" =

ACCOUNT NO.
R3268L
L14

PC 3425-R/M

DR-64-912 INDEXED 1-8-97 LH

(2) ALL CONTROLLERS ARE TO HAVE EACH STATION INDIVIDUALLY ADJUSTED ON A WEEKLY BASIS. SYSTEM SHALL BE SET CONSIDERING THE APPLICATION RATE EACH AREA IS CAPABLE OF RECEIVING. THE SYSTEM SHALL OPERATE ON SHORT INTERVALS, WITH THE CYCLE REPEATING AT A LATER TIME TO REDUCE RUNOFF.

3.11 MAINTENANCE:
AMEND THE STANDARD SPECIFICATIONS SECTION 308-6 TO READ: ALL AREAS WITHIN THE WORK LIMITS OF THIS CONTRACT SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF THE CONTRACT UNTIL FINAL ACCEPTANCE.

3.12 START OF PLANT ESTABLISHMENT:
ADD THE FOLLOWING TO STANDARD SPECIFICATIONS SECTION 308-6:
A. CRITERIA FOR START OF PLANT ESTABLISHMENT PERIOD:
(1) THE PLANT ESTABLISHMENT PERIOD SHALL NOT START UNTIL ALL ELEMENTS OF THE PROJECT THAT IMPACT THE LANDSCAPE ARE COMPLETED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. PROJECTS WILL NOT BE SEGMENTED INTO PHASES.
(2) PERMANENT POWER TO REMOTE CONTROLLERS SHALL BE ESTABLISHED.
(3) THE PLANT ESTABLISHMENT PERIOD FOR THE PROJECT SHALL NOT BEGIN UNTIL AFTER THE FIRST MOWING OF THE NEWLY PLANTED TURF AREAS. FOR PLANT EXTABLISHMENT PUPOSES "FIRST MOWING" IS DEFINED AS THE FIRST MOWING AFTER THE POINT IN TIME THAT A MINIMUM OF 85% OF THE TURF AREA HAS ATTAINED A MINIMUM HEIGHT OF 2". UNTIL THE ABOVE SPECIFIED PERCENTAGE OF TURF AREA IS ESTABLISHED AND MOWN, CONTRACTOR SHALL MOW AS NECESSARY TO MAINTAIN THOSE PORTIONS OF TURF EXCEEDING 2" AT THE MOWING HEIGHT OF 1 1/2 INCHES. AT NO TIME SHALL ANY TURF EXCEED 3" IN HEIGHT.
(4) WRITTEN ACCEPTANCE OF THE CITY MUST BE OBTAINED TO START THE PLANT ESTABLISHMENT PERIOD.
(5) IF THE PROJECT MAINENANCE FAILS TO CONTINUOUSLY MEET STANDARDS REQUIRED, THE PLANT ESTABLISHMENT PERIOD "DAY COUNT" WILL BE SUSPENDED AND WILL NOT RECOMMENCE UNTIL THE CONTRACTOR HAS CORRECTED ALL DEFICIENCIES.

3:13 MAINTENACNE TASKS:
ADD THE FOLLOWING TO STANDARD SPECIFICATIONS SECTION 308-6:
A. GENERAL:
DURING THE CONTRACT PERIOD PROVIDE ALL WATERING, WEEDING, MOWING, FERTILIZING AND CULTIVATION AND SPRAYING NECESSARY TO KEEP THE PLANTS AND TURF IN A HEALTHY GROWING CONDITION AND TO KEEP THE PLANTED AREAS NEAT, EDGED, AND ATTRACTIVE. ALL SHRUBS PLANTED BY THE CONTRACTOR SHALL BE PINCHED AND PRUNED AS NECESSARY TO ENCOURAGE NEW GROWTH AND TO ELIMINATE RANK SUCKER GROWTH. OLD WILTED FLOWERS AND DEAD FOLIAGE SHALL BE IMMEDIATELY PINCHED OR CUT OFF. DO NOT PRUNE TREES WITHOUT WRITTEN APPROVAL OF THE CITY.
B. IRON CHLOROSIS:
AFTER PLANTING AND DURING THE PLANT ESTABLISHMENT PERIOD, IN THE EVENT THAT ANY PLANTINGS EXHIBIT IRON CHLOROSIS SYMPTOMS, APPLY FE 138 GEIGY OR EQUIVALENT AT MANUFACTURER'S RECOMMENDED RATES.
C. REPLACEMENT PLANTINGS:
DURING THE PLANT ESTABLISHMENT PERIOD, SHOULD THE APPEARANCE OF ANY PLANTING INSTALLED BY THE CONTRACTOR INDICATE WEAKNESS, THAT PLANT SHALL BE REPLACED IMMEDIATELY WITH A NEW, HEALTHY PLANT. AT THE END OF THE PLANT ESTABLISHMENT PERIOD, ALL PLANT MATERIALS SHALL BE IN A HEALTHY, GROWING CONDITION AND SPACED AS INDICATED ON THE PLANS.
D. FERTILIZATION:
THE CONTRACTOR SHALL APPLY COMMERCIAL FERTILIZER TO ALL TURF AREAS AT A RATE OF 10 POUNDS PER 1,000 SQUARE FEET, AND ALL GROUNDCOVER AREAS AT A RATE OF 5 POUNDS PER 1,000 SQUARE FEET, AT 30-DAY INTERVALS, FOR 3 APPLICATIONS AS A MINIMUM, ABOVE AND BEYOND THE ORIGINAL SOIL PREPARATION APPLICATION.
E. PLANTING ESTABLISHMENT:
ALL PLANTING AREAS THAT DO NOT SHOW A PROMPT ESTABLISHMENT OF PLANT MATERIAL SAHLL BE REPLANTED AT 10-DAY INTERVALS UNTIL THE PLANT MATERIAL IS ESTABLISHED. IF A GOOD RATE OF GROWTH HAS NOT BEEN DEMONSTRATED WITHIN 30 DAYS OF FIRST PLANTING/HYDROSEEDING, THE CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE THE APPROPRIATE HORTICULTURAL PRACTICES NECESSARY TO OBTAIN GOOD GROWTH.. THE CONTRACTOR SHALL OBTAIN AGRONOMIC SOILS TESTING OF ALL AREAS NOT SHOWING GOOD GROWTH AND SHALL PROVIDE COPIES OF THE TEST RESULTS TO THE CITY TO VERIFY THE APPROPRIATENESS OF ALL MAINTENANCE WORK PERFORMED. IF ADDITIONAL SOIL AMENDMENTS ARE NEEEDED, UP TO A MAXIMUM 25% BEYOND THE APPLICATION RATE SPECIFIED, SUCH AMENDMENTS SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY.
F. GRADING AND DRAINAGE:
DURING THE PLANT ESTABLISHMENT PERIOD ALL FLOW LINES SHALL BE MAINTAINED TO ALLOW FOR FREE FLOW OF SURACE WATER. DISPLACED MATERIAL WHICH INTERFERES WITH DRAINAGE SHALL BE REMOVED AND PLACED AS DIRECTED. LOW SPOTS AND POCKETS SHALL BE GRADED TO DRAIN PROPERLY. JUTE NETTING SHALL BE INSTALLED AT FLOW LINES AND OTHER LOCATIONS WHERE EROSION IS EVIDENT, WHEN DIRECTED BY THE PARK PROJECTS INSPECTOR.
(1) DAMAGE TO PLANTING AREAS SHALL BE REPAIRED IMMEDIATELY AND THROUGHOUT THE PLANT ESTABLISHMENT PERIOD. DEPRESSIONS CAUSED BY VEHICLES, BICYCLES, OR FOOT TRAFFIC SHALL BE FILLED AND LEVELED. REPLANT DAMAGED AREAS.
(2) ALL PAVED AREAS SHALL BE WASHED AND MAINTAINED IN A NEAT AND CLEAN CONDITION AT ALL TIMES.
(3) ALL SUBSURFACE DRAINS AND INLETS SHALL BE PERIODICALLY CLEARED OF DEBRIS, LEAVES AND TRASH AND FLUSHED WITH CLEAR WATER TO AVOID BUILD UP OF SILT AND DEBRIS.
(4) DEBRIS AND TRASH SHALL BE REMOVED FROM THE SITE DAILY.
G. DISEASE AND PEST CONTROL:
ADD THE FOLLOWING TO STANDARD SPECIFICATIONS SECTION 308-6:
THROUGHOUT THE PLANT ESTABLISHMENT PERIOD, ALL PLANTS SHALL BE MAINTAINED IN A DISEASE AND PEST FREE CONDITION. A LICENSED PEST CONTROL OPERATOR SHALL BE RETAINED BY THE CONTRACTOR TO RECOMMEND AND APPLY ALL PESTICIDES, HERBICIDES, AND FUNGICIDES. EXTERMINATE GOPHERS, MOLES, AND ALL OTHER RODENTS, AND REPAIR DAMAGE.

3.14 END OF PLANT ESTABLISHMENT PERIOD:
A. WHEN THE CONTRACTOR BELIEVES HE HAS COMPLETED THE PLANT ESTABLISHMENT PERIOD AND THE ENTIRE PROJECT IS READY FOR FINAL ACCEPANCE, HE SHALL REQUEST INSPECTION OF THE PROJECT. THE CITY WILL INSPECT THE PROJECT FOR FINAL ACCEPTANCE. DEFICIENCIES NOTED DURING INSPECTION SHALL EXTEND THE PLANT ESTABLISHMENT PERIOD UNTIL ALL ARE CORRECTED.
B. ALL PLANTING AREAS SHALL SHOW A GOOD RATE OF GROWTH AND SHALL BE WELL ESTABLISHED "FILLED IN" PLANTING FREE OF VOIDS. BARE AREAS WILL BE UNACCEPTABLE. CONTRACTOR SHALL PROVIDE SOD OR PLANTINGS FROM FLATS AS NECESSARY TO FILL IN ALL BARE AREAS. SUCH SOD OR PLANTINGS SHALL BE PLANTED A MINIMUM OF 10 DAYS PRIOR TO THE END OF THE PLANT ESTABLISHMENT PERIOD AND SHALL HAVE ROOTS "KNIT-IN" TO THE NATIVE SOIL.
C. FINAL ACCEPTANCE SHALL OCCUR ONLY UPON WRITTEN ACCEPTANCE OF THE PROJECT FOR MAINTENANCE BY THE HOA.

3:15 CLEAN UP:
UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL SMOOTH ALL GROUND SURFACES; REMOVE EXCESS MATERIALS, RUBBISH, DEBRIS, ETC.; SWEEP ADJACENT STREETS, CURBS, GUTTER; WASH DOWN ALL WALKWAYS, AND TRAILS; AND REMOVE CONSTRUCTION EQUIPMENT FROM THE PREMISES.

END OF SECTION

SECTION 03356 - STAMPED CONCRETE

ENTRYS - DRY SHAKE COLOR W/LITHOCHROME COLOR
MEDIANS - INTEGRAL COLOR

PART 1 - GENERAL:

1.01 RELATED DOCUMENTS:
THE SPECIAL PROVISIONS OF THE SPECTIFICATION AS WELL AS THE "STANDARD SPECIFICATIONS" SHALL APPLY EXCEPT AS MODIFIED HEREIN.

1.02 SCOPE OF WORK:
EXTERIOR WALKS AND SLABS AS SHOWN ON DRAWINGS
FORMING
CEMENT, FINISHING
SETTING OF ITEMS TO BE INSERTED INTO CONCRETE
REINFORCEMENT DOWELS
CURING
PLACING OF SLEEVES, CONDUIT STUBS, AND DRAIN LINES UNDER SLABS

1.03 QUALITY ASSURANCE:
THE WORK SHALL BE PERFORMED BY QUALIFIED PERSONNEL TRAINED TO OBTAIN THE TEXTURED FINISH SPECIFIED HEREIN, THE CONTRACTOR SHALL PROVIDE WRITTEN EVIDENCE TO THE PARK DEPARTMENT THAT THE INSTALLER FOR THIS WORK HAS SATISFACTORILY COMPLETED AT LEAST THREE INSTALLATIONS.

1.04 SAMPLE POUR:
THE CONTRACTOR SHALL PROVIDE A SAMPLE POUR ON SITE OF SUFFICIENT SIZE, MINIMUM 10 S.F., TO DEMONSTRATE THE REQUIRED STAMPED CONCRETE WORK, INCLUDING INTEGRAL COLOR, WAX CURING AND FINISHING COMPOUNDS. A MINIMUM PERIOD OF 28 DAYS WILL BE REQUIRED FOR ADEQUATE CURING OF THE SAMPLE POUR PRIOR TO INSPECTION. STAMPED CONCRETE WORK SHALL NOT BE PERFORMED PRIOR TO THE INSPECTION AND WRITTEN APPROVAL OF THE SAMPLE BY THE PARK PROJECTS INSPECTOR. IF NOT APPROVED, ADDITIONAL SAMPLE PANELS WILL BE REQUIRED UNTIL APPROVAL IS ACHIEVED. ALL OTHER PORTIONS OF THE STAMPED CONRETE WORK SHALL MATCH THE COLOR AND FINISH OF THE APPROVED SAMPLE POUR.

1.05 DEFECTIVE WORK:
NO PATCHING WILL BE PERMITTED TO CORRECT DEFECTIVE WORK WITHOUT FIRST OBTAINING PERMISSION OF CITY INSPECTOR. IF IN THE INSPECTOR'S OPINION, PATCHING DOES NOT RESTORE THE QUALITY AND APPEARANCE OF THE WORK, DEFECTIVE SECTIONS SHALL BE REMOVED AND REPLACED. INCONSISTENCIES IN COLOR WILL BE CONSIDERED AS DEFECTIVE WORK. NO EXTENSION OF TIME WILL BE ALLOWED FOR CORRECTING DEFECTIVE WORK.

1.06 INSPECTIONS:
INSPECTIONS ARE REQUIRED. CONTRACTOR SHALL CALL FOR INSPECTION A MINIMUM OF 48 HOURS (TWO WORKING DAYS) PRIOR TO NEED.
THE CONTRACTOR SHALL CALL FOR INSPECTION AT SPECIFIC STEPS IN THE CONSTRUCTION PROCESS INCLUDING THOSE POINTS IN TIME WHEN:
(1) ALL SLEEVE, CONDUIT, AND DRAINLINE INSTALLATION IS COMPLETE, BUT PRIOR TO BACKFILL OF TRENCHES.
(2) ALL FORM WORK IS PLACED AND ALL SUBGRADE WORK IS COMPLETE, BUT PRIOR TO POUR.

CONTRACTOR SHALL NOTIFY THE PARK PROJECTS INSPECTOR, (714) 782-5223, A MINIMUM OF 48 HOURS PRIOR TO POURING ANY CONCRETE.
ANY WORK COVERED PRIOR TO INSPECTION SHALL BE OPENED TO VIEW BY THE CONTRACTOR AT HIS EXPENSE IF SO DIRECTED BY THE INSPECTOR.

PART 2 - MATERIALS

2.01 ALL MATERIALS SHALL CONFORM TO SECTION 201 OF THE STANDARD SPECIFICATIONS, EXCEPT AS MODIFIED IN THE FOLLOWING SUBSECTIONS.

2.02 CONCRETE:
CONCRETE SHALL CONFORM TO CONCRETE CLASS USE TABLE, SECTION 201-1, OF THE STANDARD SPECIFICATIONS. NO ADMIXTURES, OTHER THAN INTEGRAL COLOR ADMIXTURE, WILL BE ALLOWED.

2.03 INTEGRAL COLOR:
THE REQUIRED COLOR SHALL BE: TO MATCH EXISTING
BY L. M. SCOFIELD, OR CITY APPROVED EQUAL. COLOR ADMIXTURE IS TO BE ADDED TO THE CONCRETE AT THE BATCHING PLANT PER THE MANUFACTURER'S PRINTED INSTRUCTIONS.

PART 3 - EXECUTION

3.01 GENERAL:
ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF SECTION 303 OF THE STANDARD SPECIFICATIONS.
INSTALL CONCRETE AND CEMENT FINISH WORK TRUE TO LINES, DIMENSIONS AND LEVELS.

3.02 PLACING CONCRETE:
TRANSPORT, PLACE AND SPREAD IN A MANNER TO PREVENT SEGREGATION OF AGGREGATE. REINFORCING SHALL BE SUPPORTED BY METAL OR PLASTIC CHAIRS; CONCRETE SUPPORTS SHALL NOT BE USED. REFERENCE SECTION 303-1.7.1, 303-6.2.

3.03 CONCRETE FINISH:
WHILE THE CONCRETE IS STILL IN THE PLASTIC STAGE OF SET, THE FORMING TOOLS SHALL BE APPLIED TO MAKE THE PATTERNED SURFACE. THE PATTERN USED SHALL BE:
ALL PER STANDARD SPEC'S SECTION 303-6.4.
A PIGMENTED, HEAVY DUTY WAX CURING AND FINISHING COMPOUND SHALL BE APPLIED. THE WAX COMPOUND IN THE MATCHING COLOR SHALL BE APPLIED UNIFORMLY IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS. THE SEALED SURFACE SHALL BE POLISHED USING A FINE BRUSH WHICH REMOVES RESIDUAL DUST FROM THE SURFACE.
PROTECT ALL FINISHED CONCRETE FROM GRAFFITI. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING CONCRETE WATCHMEN. A GRAFFITIED FINISH WILL NOT BE ACCEPTABLE.
REMOVE AND REPLACE DEFECTIVE CONCRETE WITH NEW MATERIALS. PERMISSION TO PATCH ANY DEFECTIVE AREA SHALL NOT BE A WAIVER OF THE PARK AND RECREATION DEPARTMENT'S RIGHT TO REQUIRE COMPLETE REMOVAL OF DEFECTIVE WORK IF PATCHING DOES NOT RESTORE QUALITY AND APPEARANCE OF WORK.
NO ADVERTISING IMPRESSION, STAMP, OR MARK OF ANY DESCRIPTION OTHER THAN THE SPECIFIED PATTERN WILL BE PERMITTED IN THE CEMENT FINISH.

3.04 CURING:
SHALL BE PERFORMED PER STANDARD SPECIFICATION SECTION 303-6.5.

END OF SECTION

GENERAL MASONRY NOTES:

FOUNDATIONS
1. FOUNDATIONS SHALL BE OF THE SIZE AND TYPE AS INDICATED ON THE DRAWINGS.
2. ALL EXISTING FILL SOIL AND DISTURBED NATURAL SOIL ARE TO BE EXCAVATED AND REPLACED WITH PROPERLY COMPACTED FILL. ALL FILLING, BACKFILLING, RECOMPACTION, ETC. IS TO BE ACCOMPLISHED ONLY UNDER THE SUPERVISION OF A SOIL ENGINEER.
3. ALL EXCAVATIONS ARE TO BE INSPECTED AND APPROVED BY A SOIL ENGINEER PRIOR TO THE PLACEMENT OF ANY FILL OR REINFORCING STEEL.
4. EXTERIOR FOOTINGS AND INTERIOR FOOTINGS ARE TO BE CARRIED A MINIMUM OF 1'-6" AND 1'-6", RESPECTIVELY, INTO FIRM UNDISTURBED NATURAL SOIL OR APPROVED COMPACTED FILL.
5. DESIGN BEARING PRESSURE IS 1000 PSF WITH A 33% INCREASE FOR SEISMIC OR WIND FOOTINGS.
6. DESIGN LATERAL BEARING PRESSURE IS 250 PSFFF/FT WITH A 33% INCREASE FOR SEISMIC OR WIND LOADING AND A 200% INCREASE FOR ISOLATED POLE TYPE FOOTINGS.
7. DESIGN COEFFICIENT OF FRICTION IS .40 WITH A 33% INCREASE FOR SEISMIC OR WIND LOADING.

MASONRY
1. ALL CONCRETE BLOCK SHALL CONFORM TO ASTM C90, GRADE N-1, WITH A MINIMUM COMPRESSIVE STRENGTH OF 1500 PSI.
2. LAP ALL REINFORCING STEEL AT SPLICES A MINIMUM OF 48 BAR DIAMETERS AT SPLICES, UNLESS NOTED OTHERWISE.
3. ALL MASONRY SHALL BE REINFORCED GROUTED MASONRY. GROUT SOLID ALL CELLS WHICH CONTAIN REINFORCING STEEL, BOLTS, ETC. GROUT SOLID ALL CELLS BELOW GRADE. ALL REINFORCING STEEL BOLTS, ETC, SHALL HAVE A MINIMUM GROUT COVERAGE OF 1", UNLESS NOTED OTHERWISE.
4. SPLICES OF HORIZONTAL REINFORCING STEEL IN WALLS SHALL BE STAGGERED.
5. DOWELS FOR WALLS AND COLUMNS SHALL BE THE SAME SIZE AND SPACING AS THE WALL OR COLUMN REINFORCING STEEL AND SHALL LAP WITH THE WALL OR COLUMN REINFORCING STEEL AS NOTED ABOVE, UNLESS NOTED OTHERWISE.
6. MORTAR SHALL CONFORM TO ASTM C270, TYPE S, AND ATTAIN A MINUMIM COMPRESSIVE STRENGTH AT 28 DAYS OF 1800 PSI AND MIXED IN THE PROPORTIONS OF 1 PART PORTLAND PLASTIC TYPE CEMENT TO 2-1/4 TO 3 PARTS SAND TO A MAXIMUM OF 2 PARTS PEA GRAVEL.
7. GROUT SHALL CONFORM TO ASTM C476 AND ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AT 28 DAYS AND SHALL BE MIXED IN PROPORTIONS OF 1 PART PORTLAND CEMENT TO 1/10 PART LIME PUTTY TO 2 TO 3 PARTS SAND TO A MAXIMUM OF 2 PARTS PEA GRAVEL.
8. CEMENT, REINFORCING STEEL, ETC. SHALL BE INDICATED IN POURED-IN-PLACE CONCRETE SECTION UNLESS NOTED OTHERWISE.
9. AGGREGATES FOR MORTAR AND GROUT SHALL BE NATURAL SAND AND ROCK CONFORMING TO ASTM C144 AND C404.
10. IF WORK IS STOPPED ONE HOUR OR LONGER, PROVED HORIZONTAL CONSTRUCTION JOINTS BY STOPPING THE GROUT 1-1/2" BELOW THE TOP OF THE BLOCK.

TESTS AND INSPECTIONS
1. ALL CEMENT, AGGREGATE, REINFORCING STEEL, STRUCTURAL STEEL, ETC. SHALL BE FROM TESTED STOCK. COPIES OF TEST REPORTS SHALL BE FURNISHED TO THE ARCHITECT UPON REQUEST.

STRUCTURAL STEEL
1. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A36, UNLESS NOTED OTHERWISE. FOR REINFORCING STEEL GRADES SEE POURED-IN-PLACE CONCRETE SECTION.
2. ALL FABRICATION AND ERECTION SHALL CONFORM TO THE LATEST STANDARD EDITION OF AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
3. NO FIELD CUTTING OR BURNING OF STRUCTURAL STEEL SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE ARCHITECT.
4. ANCHOR BOLTS AND UNFINISHED BOLTS SHALL CONFORM TO ASTM A307. THREADED ROUND STOCK SHALL CONFORM TO ASTM A35.
5. ALL WELDING SHALL BE DONE BY THE ELECTRIC ARC PROCESS USING APPROVED COATED RODS AND PERFORMED BY CERTIFIED WELDERS. ALL FABRICATION AND WELDING SHALL BE PERFORMED IN THE SHOP OF AN APPROVED FABRICATOR. WELDING MAY BE PERFORMED USING THE SUBMERGED ARC PROCESS WITH AUTOMATIC WELDING (SAW-1). E-90XX LOW HYDROGEN ELECTRODES SHALL BE USED IN WELDING OF REINFORCING STEEL.

GENERAL
1. THE FOLLOWING NOTES AND TYPICAL DETAILS APPLY TO ALL DRAWINGS UNLESS NOTED OTHERWISE.
2. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUCTION WITH ARHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.
3. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OR CONSTRUCTION SHALL BE USED SUBJECT TO REVIEW BY THE ARCHITECT.
4. ALL CONSTRUCTION AND WORKMANSHIP SHALL CONFORM TO THE DRAWINGS, SPECIIFICATIONS, AND THE 1988 UNIFORM BUILDING CODE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS. ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.
6. THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE SHOWN, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. OBSERVATION VISITS TO THE SITES BY FIELD REPRESENTATIVES OF THE ARCHITECT DO NOT INCLUDE INPECTIONS OF THE PROTECTIVE MEASURES OF THE PROCEDURES FOR SUCH METHODS OF CONSTRUCTION. ANY SUPPORT SERVICES PERFORMED BY THE ARCHITECT DURING CONSTRUCTION SHALL BE DISTINGUISHED FROM CONTINUOUS AND DETAILED INPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES WHICH ARE FURNISHED BY THE ARCHITECT, WHETHER OF MATERIAL OR WORK, AND WHETHER PERFORMED PRIOR TO, DURING OR AFTER COMPLETION OF CONSTRUCTION, ARE PERFORMED SOLELY FOR THE PURPOSE OF ASSISTING IN QUALTIY CONRTOL AND IN ACHIEVING CONFORMANCE WITH CONTRACT DRAWINGS AND SPECIFICATION; BUT THEY DO NOT GUARANTEE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.
7. ALL ERECTION PROCEDURES SHALL CONFORM TO OSHA STANDARDS. ANY DEVIATION MUST BE APPROVED BY OSHA PRIOR TO ERECTION.
8. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER THESE NOTES.
9. DESIGN, MATERIALS, EQUIPMENT AND PRODUCTS OTHER THAN THOSE DESCRIBED BELOW OR INDICATED ON THE DRAWINGS MAY BE CONSIDERED FOR USE, PROVIDED PRIOR APPROVAL IS OBTAINED FROM THE OWNER, ARCHITECT, AND THE APPLICABLE GOVERNING CODE AUTHORITY.
10. ALL CONDITIONS SHOWN OR NOTED AS EXISTING ARE BASED ON BEST INFORMATION CURRENTLY AVAILABLE AT THE TIME OF PREPARATION OF THESE DRAWINGS. NO WARRANTY IS IMPLIED AS TO THE ACURACY OF SAME HOWEVER, AND CONTACTOR IS TO FIELD VERIFY ALL CONDITIONS. SHOULD CONDITIONS APPARENT WHICH DIFFER FROM THE CONDITIONS SHOWN HEREIN THEY SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT. THE ARCHITECT WILL THEN PREPARE ADDITIONAL DRAWINGS AS MAY BE NEEDED TO ACCOMMODATE THE CONDITIONS AS BROUGHT TO THEIR ATTENTION.
11. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL SAFETY ORDINANCES.

SCOPE OF TUBULAR STEEL FENCING WORK
1. NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES.
2. LICENSE: THE TUBULAR STEEL FENCE CONTRACTOR SHALL BE A C-8 CALIFORNIA LICENSED TUBULAR STEEL FENCE CONTRACTOR.
3. MATERIAL STANDARDS: ALL STEEL TUBING SHALL BE ASTM A500 GRADE A, OR ASTM A501 SEAMLESS.
4. PRIMER PAINT: PRIMER-COAT PAINT SHALL CONFORM TO EITHER FS TT-P-86 TYPE II FOR RED LEAD/ALKYD TYPE PAINT OR TO FS TT-P-G45 FOR ZINC CHROMATE TYPE PAINT.
5. REPAIR OF GALVANIZED SURFACE: TO TOUCH-UP GALVANIZED SURFACES USE ALL STATE #321 GALVANIZING POWDER (30% TIN, 30% ZINC, 40% LEAD AND FLUX) AS MANUFACTURED BY ALL STATE WELDING ALLOYS COMPANY OR EQUAL.
6. QUALITY CONTROL: MISCELLANEOUS METAL WORK SHALL BE FREE FROM DEFECTS WHICH WOULD IMPAIR STRENGTH, DURABILITY AND APPEARANCE.
7. INSTALLATION: ERECT PLUMB, STRAIGHT, TRUE AND ACCURATELY FIT IN PLACE. BRACE, REINFORCE, AND ANCHOR IN PLACE. GRAND ALL FIELD WELDS.
8. CORROSION PREVENTION: PROTECT ALL DISSIMILAR METALS FROM GALVANIC CORROSION BY PRESSURE TAPES, COATINGS OR ISOLATORS.
9. CLEANING: AFTER ERECTION, CLEAN OFF ALL RUST, SCALE AND OIL. CLEAN FIELD WELDS, BOLTS, AND ABRADED AREAS. TOUCH UP ALL AREAS WITH THE SAME MATERIAL AS USED FOR THE SHOP COAT, LEAVING ALL SURFACES READY TO RECEIVE FINISH COATS.
10. PAINTING: APPLY ONE PRIMER COAT CONFORMING TO NOTE 4 ABOVE AND APPLY TWO FINISH COATS OF EXTERIOR METAL ENAMEL TO METAL SURFACES, COLOR SHALL BE AS NOTED ON THE DRAWINGS.

GENERAL NOTE: CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

REGISTERED LANDSCAPE ARCHITECT
ROGER G. BECK LICENSE NO. 2774
Signature
Date
STATE OF CALIFORNIA

LAND DESIGN STUDIO
LANDSCAPE ARCHITECTS
ROGER G. BECK PRESIDENT
33666 PEQUITO DRIVE DANA POINT, CA 92629
(714) 496-1754

SIGNATURE BLOCK

M Hutchinson 10-21-92 PARKS & REC.	N/A ELECTRIC
N/A WATER	B Milosevic 9/29/92 PLANNING

MARK	REVISIONS	APPR.	DATE

DESIGNED BY ____ DRAWN BY ____ CHECKED BY ____

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	11/18/92	
PARK DEPARTMENT	10-21-92	
TRAFFIC DIVISION		
CHIEF P. W. ENGINEER	11/16/92	
	11/18/92	

APPROVED BY
PUBLIC WORKS DIRECTOR
DATE 11/18/92

REVERSE FRONTAGE AND MEDIAN LANDSCAPE PLAN

SPECIFICATIONS

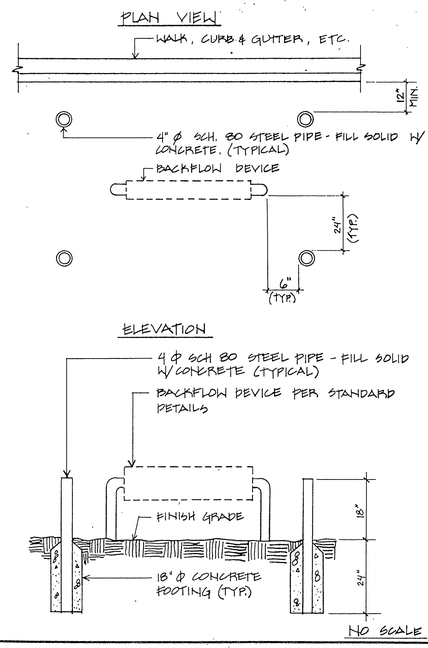
HORIZ. SCALE: 1" = ____ VERT. SCALE: 1" = ____

ACCOUNT NO.
R3268L
L15
SHEET 16 OF 21

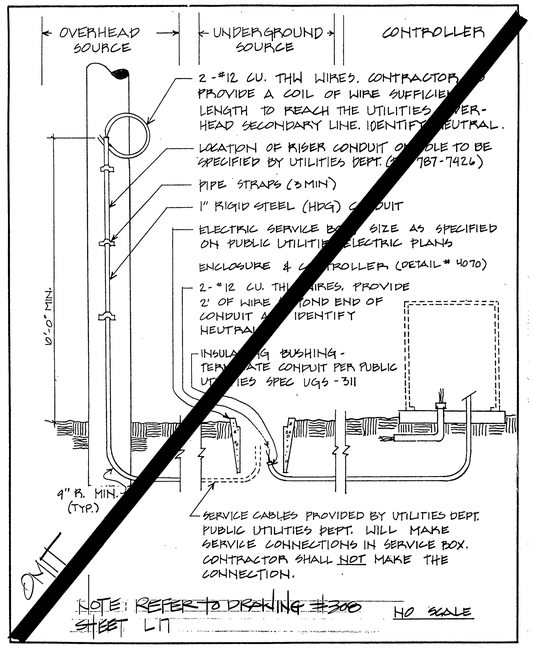
PC 3425-R/M

DR-64-912

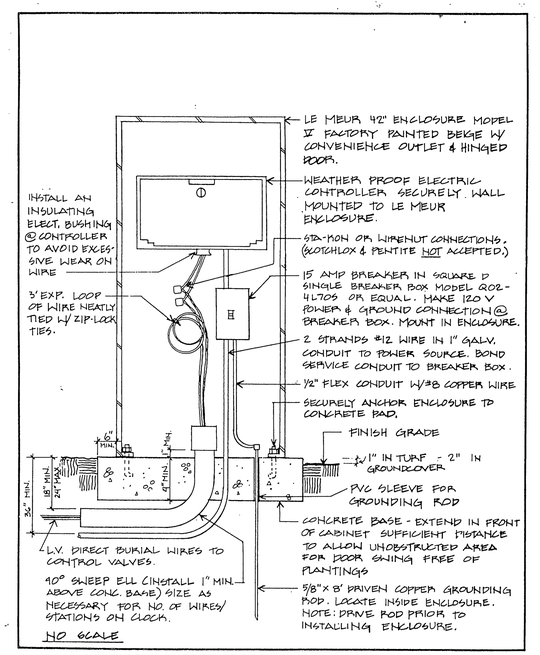
INDEXED 1-8-97 GH



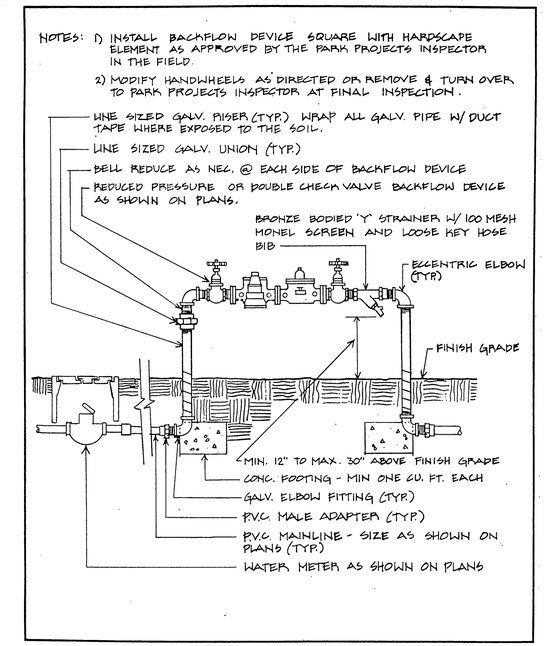
Approved / Date	Park & Recreation Department CITY OF RIVERSIDE	Detail No.
Terry Nelson 10-1-86	BARRIER POSTS	4019
Revised Date		



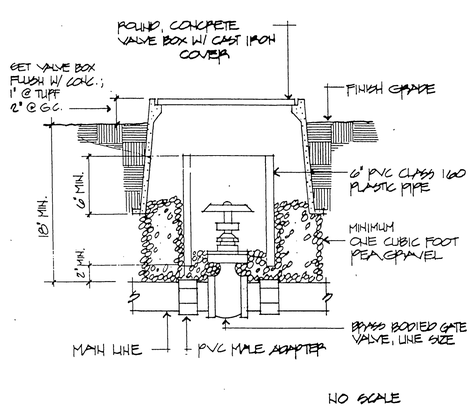
Approved / Date	Park & Recreation Department CITY OF RIVERSIDE	Detail No.
Terry Nelson 10-1-86	UTILITY SERVICE	4060
Revised Date		



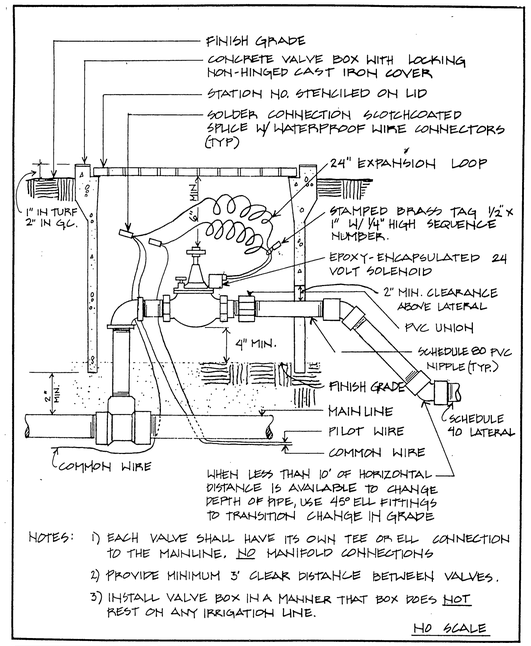
Approved / Date	Park & Recreation Department CITY OF RIVERSIDE	Detail No.
Terry Nelson 10-27-86	CONTROLLER	4070
Revised Date		



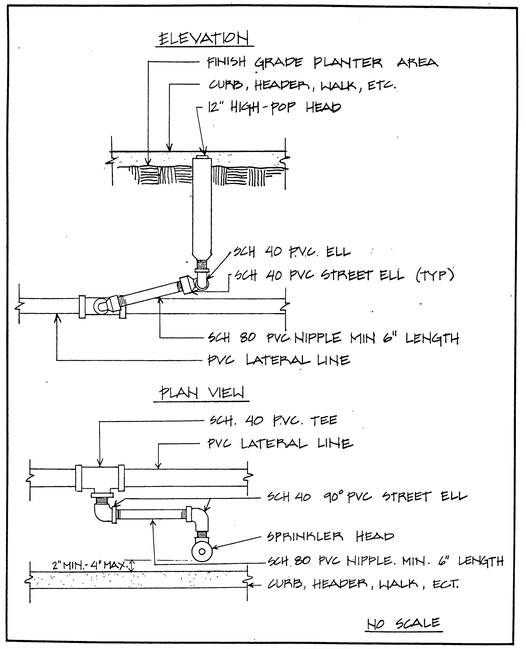
Approved / Date	Park & Recreation Department CITY OF RIVERSIDE	Detail No.
Terry Nelson 7/1/86	REDUCED PRESSURE/DOUBLE CHECK VALVE BACKFLOW DEVICE	4011
Revised Date		



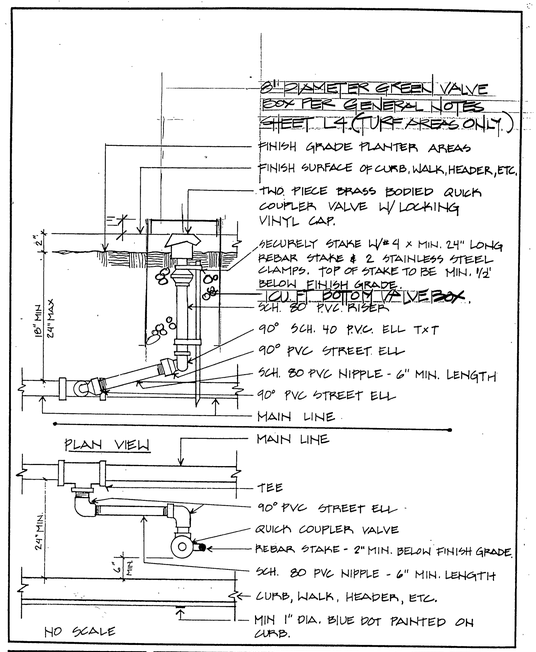
Approved Date	Park & Recreation Department CITY OF RIVERSIDE	Detail No.
	GATE VALVE	4020
Revised Date		



Approved Date	Park & Recreation Department CITY OF RIVERSIDE	Detail No.
Terry Nelson 10-27-86	AUTOMATIC VALVE	4030
Revised Date		



Approved / Date	Park & Recreation Department CITY OF RIVERSIDE	Detail No.
Terry Nelson 10-27-86	SPRAY HEAD	4040
Revised Date		



Approved / Date	Park & Recreation Department CITY OF RIVERSIDE	Detail No.
Terry Nelson 10-27-86	QUICK COUPLER	4050
Revised Date		

REGISTERED LANDSCAPE ARCHITECT ROGER G. BECK LICENSE NO. 2977 STATE OF CALIFORNIA
Signature 3/6/92 Date

LAND DESIGN STUDIO
LANDSCAPE ARCHITECTS
ROGER G. BECK PRESIDENT
33666 PEQUITO DRIVE DANA POINT, CA 92629
(714) 496-1754

SIGNATURE BLOCK

PARKS & REC. 10-21-92	N/A ELECTRIC
N/A WATER	9/29/92 PLANNING

MARK	REVISIONS	APPR.	DATE

DESIGNED BY ____ DRAWN BY ____ CHECKED BY ____

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	11/10/92	
PARK DEPARTMENT	10-21-92	
TRAFFIC DIVISION	—	
CHIEF P. W. ENGINEER	11/16/92	
	11/19/92	

APPROVED BY
PUBLIC WORKS DIRECTOR
DATE 11/18/92

REVERSE FRONTAGE AND MEDIAN LANDSCAPE PLAN

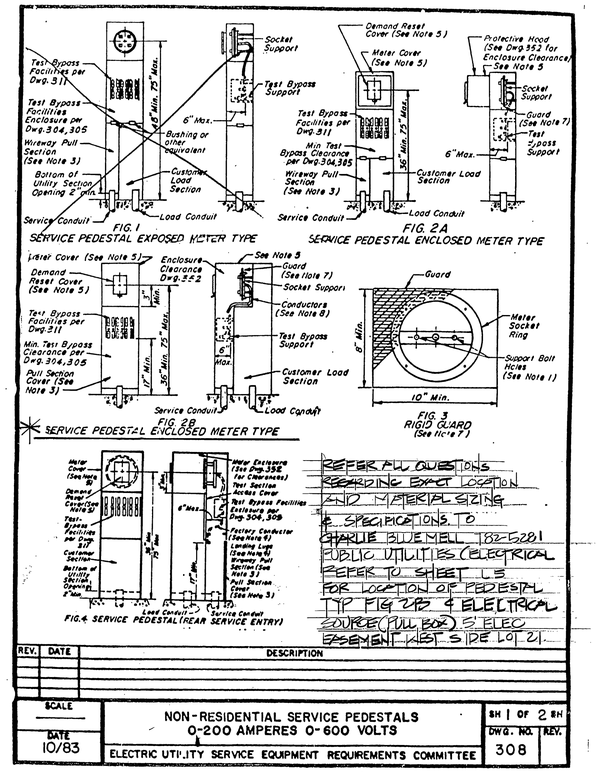
IRRIGATION DETAILS

HORIZ. SCALE: 1" = VERT. SCALE: 1" =

ACCOUNT NO. R3268L
L16
SHEET 17 OF 21

PC 3425-R/M

DR-64-912 INDEXED 1-8-97 LH



REFER ALL QUESTIONS REGARDING EXACT LOCATION AND MATERIAL SIZING & SPECIFICATIONS TO CHARLIE BLUEMELL 782-5281 PUBLIC UTILITIES (ELECTRICAL REFER TO SHEET L3 FOR LOCATION OF PEDESTAL TYP FIG 2B & ELECTRICAL SOURCE (PULL BOX) 5' ELEC EASEMENT WEST SIDE LOT 21.

REV.	DATE	DESCRIPTION

SCALE	NON-RESIDENTIAL SERVICE PEDESTALS 0-200 AMPERES 0-600 VOLTS	SH 1 OF 2 SH
DATE 10/83	ELECTRIC UTILITY SERVICE EQUIPMENT REQUIREMENTS COMMITTEE	DWG. NO. 308 REV.

GENERAL PLANTING NOTES

1) Contact the Park Project Inspector at 787-7223 48 hours prior to installing any plant material.

2) Trees planted in turf areas shall be maintained with a minimum 12" radius around tree free from turf throughout the maintenance period.

3) Watering basins may be removed after the maintenance period.

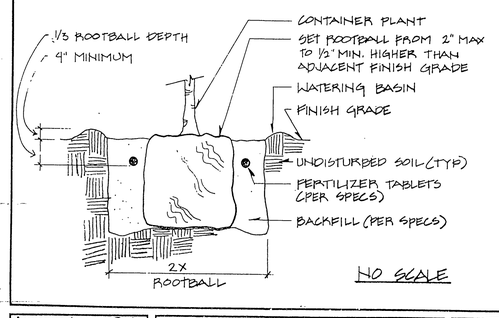
4) For staking information as applicable, refer to standard staking detail.

5) For guying information as applicable, refer to standard guying detail.

6) For specification information, refer to City of Riverside Park and Recreation Department Standard Specifications sections 02480/02401.

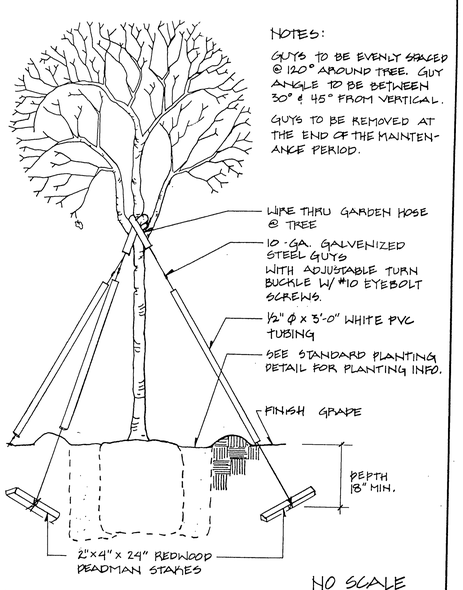
7) Provide Fertilizer Tablets as follows:

1 gallon plant	2 tablets
5 gallon plant	3 tablets
15 gallon plant	5 tablets
24" box plant	8 tablets



NO SCALE

Approved	Date 4/8/86	Park & Recreation Department CITY OF RIVERSIDE	Detail No.
Revised	Date	PLANTING DETAIL	1001



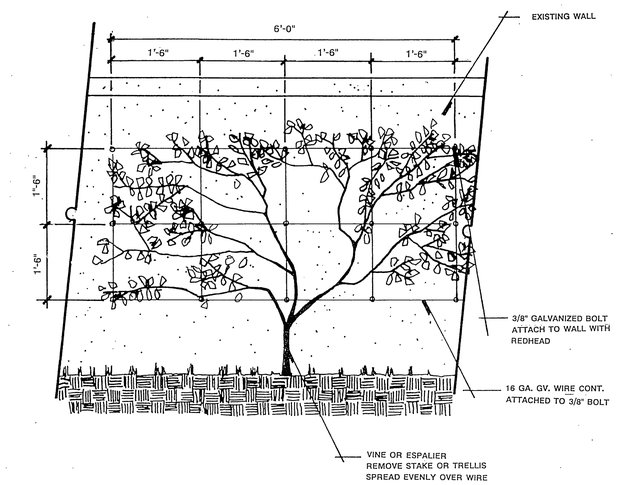
NOTES:

GUYS TO BE EVENLY SPACED @ 120° AROUND TREE. GUY ANGLE TO BE BETWEEN 30° & 45° FROM VERTICAL.

GUYS TO BE REMOVED AT THE END OF THE MAINTENANCE PERIOD.

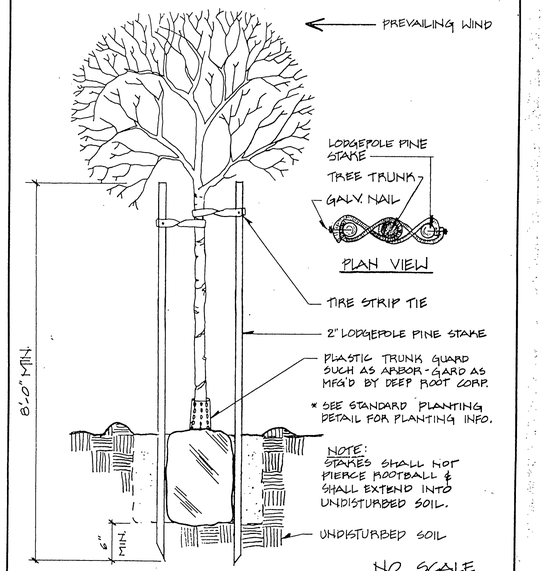
NO SCALE

Approved	Date 4-10-86	Park & Recreation Department CITY OF RIVERSIDE	Detail No.
Revised	Date	TREE GUYING DETAIL	1003



VINE/ESPALIER DETAIL
SCALE: 3/4" = 1'-0"

ELEVATION



NO SCALE

Approved	Date 4-10-86	Park & Recreation Department CITY OF RIVERSIDE	Detail No.
Revised	Date	DOUBLE STAKING DETAIL	1002

REGISTERED LANDSCAPE ARCHITECT ROGER G. BECK LICENSE NO. 2711 STATE OF CALIFORNIA
Signature 3/10/87 Date

LAND DESIGN STUDIO
LANDSCAPE ARCHITECTS
ROGER G. BECK PRESIDENT
33666 PEQUITO DRIVE DANA POINT, CA 92629
(714) 496-1754

SIGNATURE BLOCK

PARKS & REC. 10-21-92	ELECTRIC
N/A WATER	PLANNING 9/29/92

MARK	REVISIONS	APPR.	DATE

DESIGNED BY ____ DRAWN BY ____ CHECKED BY ____

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	11/10/92	
PARK DEPARTMENT	10-21-92	
TRAFFIC DIVISION	—	
CHIEF P. W. ENGINEER	11/16/92	
	11/10/92	

APPROVED BY
PUBLIC WORKS DIRECTOR
DATE 11/18/92

REVERSE FRONTAGE AND MEDIAN LANDSCAPE PLAN

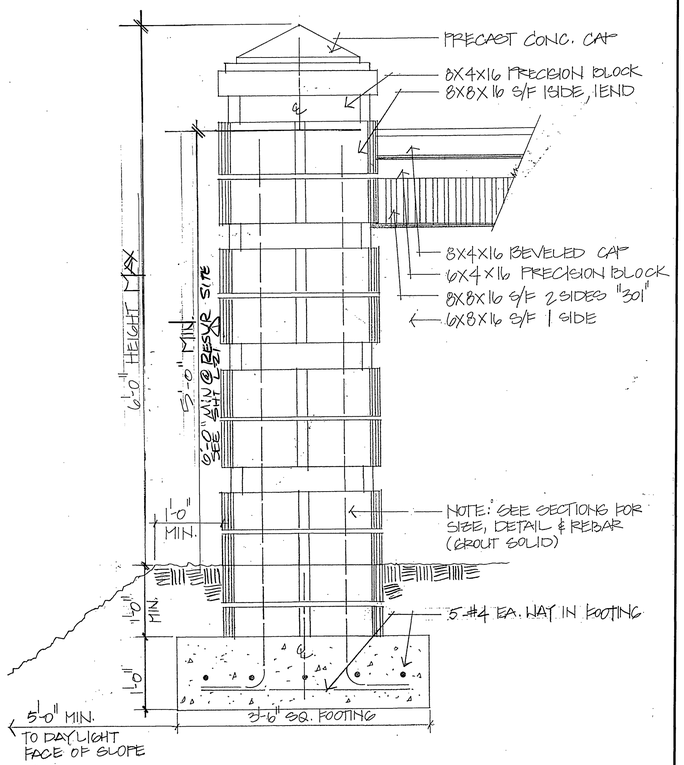
PLANTING DETAILS

HORIZ. SCALE: 1" = VERT. SCALE: 1" =

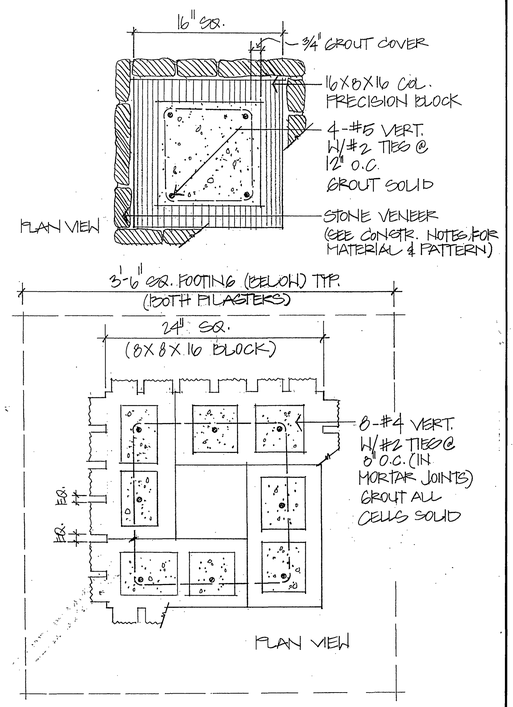
ACCOUNT NO. R3268L
L17
SHEET 18 OF 21

PC 3425-R/M

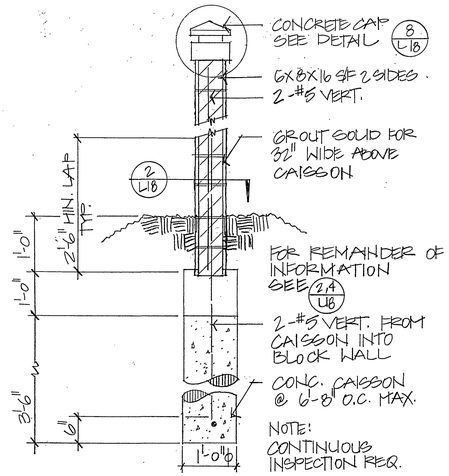
DR-64-912 INDEXED 1-8-97 GH



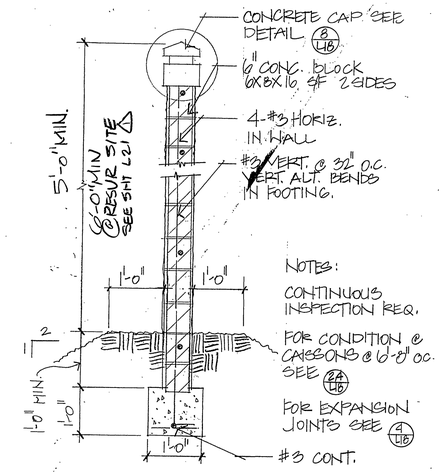
7 SPLIT FACE PILASTER / WALL
SCALE: 1" = 1'-0" SECTION / ELEVATION



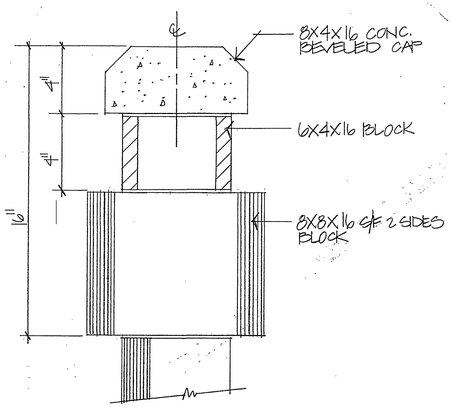
5 STONE VENEER / SPLIT FACE PILASTERS
SCALE: 1 1/2" = 1'-0" PLAN



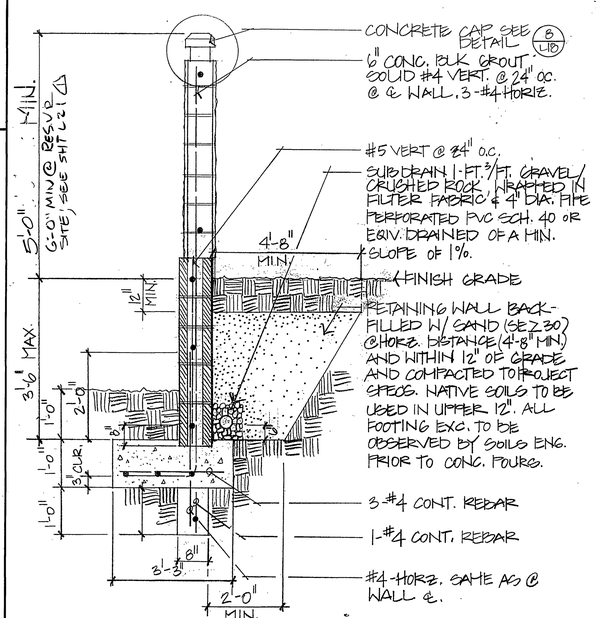
3 6'-0" S/F MASONRY WALL @ CAISSON
SCALE: 3/4" = 1'-0" SECTION



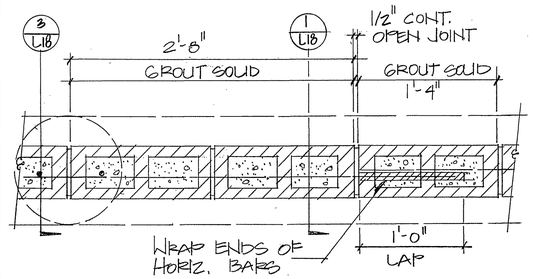
1 6'-0" S/F MASONRY WALL BETWEEN CAISSON
SCALE: 3/4" = 1'-0" SECTION



8 SPLIT FACE WALL CAP DETAIL
SCALE: 3" = 1'-0" SECTION

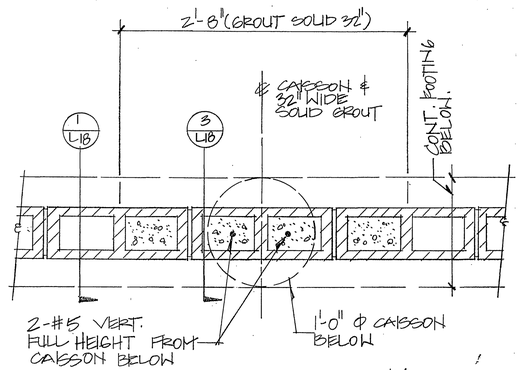


6 RETAINING WALL W/ LEVEL BACK FILL
SCALE: 1/2" = 1'-0" SECTION



NOTE: PROVIDE EXPANSION JOINT AT 50'-0" MAX. O.C.

4 WALL @ CAISSON W/ EXPANSION JOINT
SCALE: 1 1/2" = 1'-0" PLAN / SECTION



6/27/96

PROFESSIONAL ENGINEER CERTIFICATE OF REGISTRATION RUSSELL E. CHAPP No. 28248 Exp. 3/31/98 CIVIL STATE OF CALIFORNIA

REGISTERED LANDSCAPE ARCHITECT ROGER G. BECK LICENSE NO. 2171 Signature 6/26/96 Date STATE OF CALIFORNIA

FOR REVISION 1 ONLY

2 WALL @ CAISSON
SCALE: 1 1/2" = 1'-0" PLAN / SECTION

LAND DESIGN STUDIO
LANDSCAPE ARCHITECTS
ROGER G. BECK PRESIDENT
33666 PEQUITO DRIVE DANA POINT, CA 92629
(714) 496-1754

SIGNATURE BLOCK

M Hutchinson 10/11/92 PARKS & REC.	N/A ELECTRIC
R.S. Dubik 8/1/96 WATER	R Milosevic 9/20/92 PLANNING

MARK	REVISIONS	APPR.	DATE
1	REVISE WALL HT @ RESVR	RES	4/10/96

DESIGNED BY ____ DRAWN BY ____ CHECKED BY ____

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	11/19/92	
PARK DEPARTMENT	10-21-92	
TRAFFIC DIVISION	—	—
CHIEF P. W. ENGINEER	11/16/92	RAW.G
	11/10/92	W.C.R.

APPROVED BY
PUBLIC WORKS DIRECTOR
DATE 11/19/92

REVERSE FRONTAGE AND MEDIAN LANDSCAPE PLAN

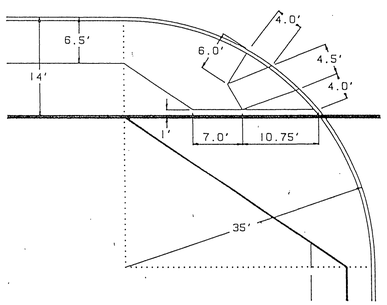
CONSTRUCTION DETAILS

HORIZ. SCALE: 1" = VERT. SCALE: 1" =

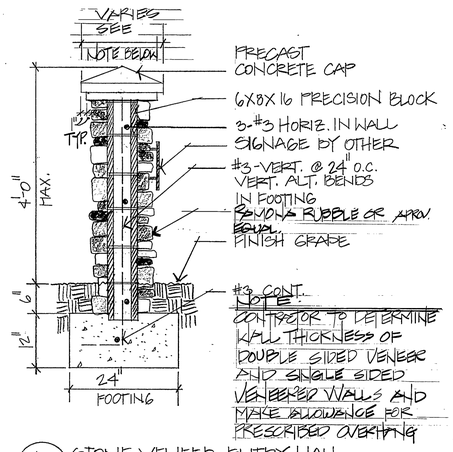
ACCOUNT NO. R3268L
L18
SHEET 19 OF 21

PC 3425-R/M

DR-64-912 INDEXED 1-8-97 4H

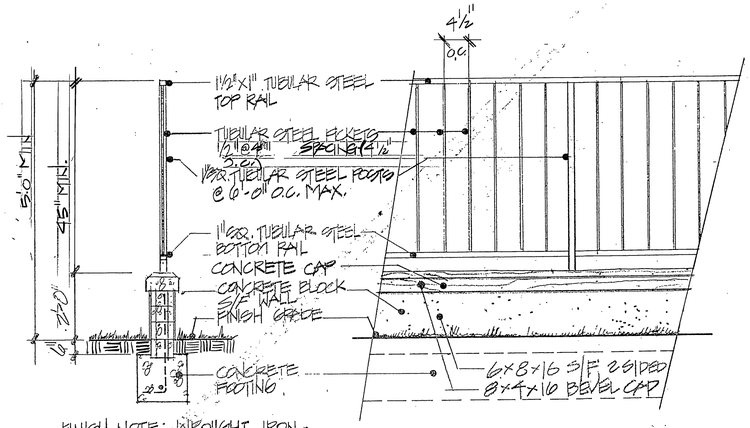


14 HANDICAP RAMP
SCALE: 1" = 10'-0"
PLAN



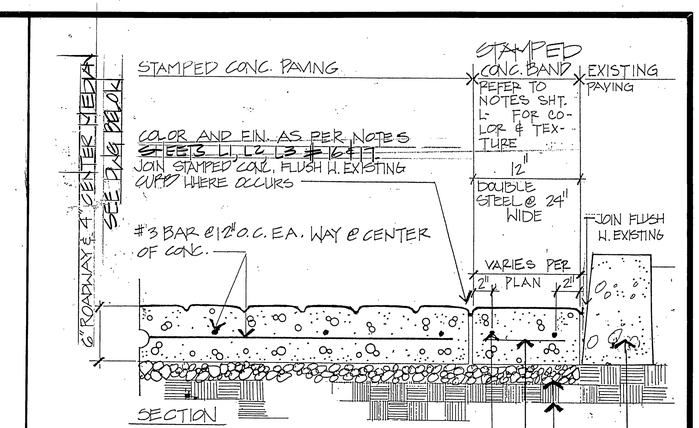
13 STONE VENEER ENTRY WALL
SCALE: 3/4" = 1'-0"
SECTION

Not included in this approval, variance approval and sign permit required



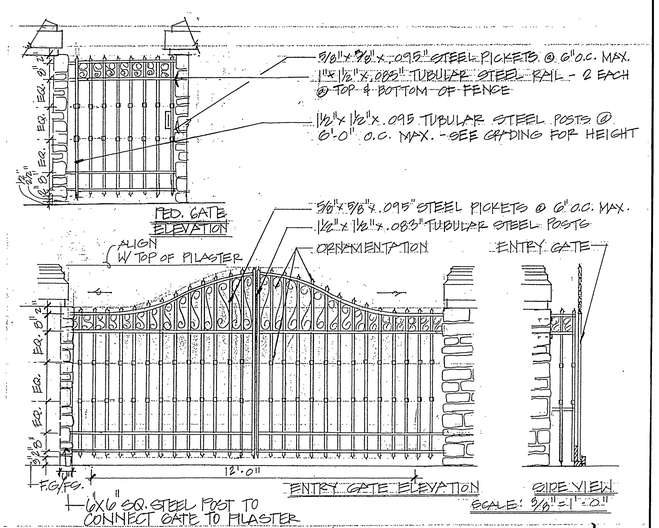
FINISH NOTE: WROUGHT IRON - 2 COATS KIGTOLEUM ENAMEL OVER ONE COAT ZINC OXIDE PRIMER. WELD ALL JOINTS, GRIND ALL WELDS SMOOTH. ENAMEL COLOR TO BE SELECTED.

11 VIEW FENCE
SECTION/ELEVATION



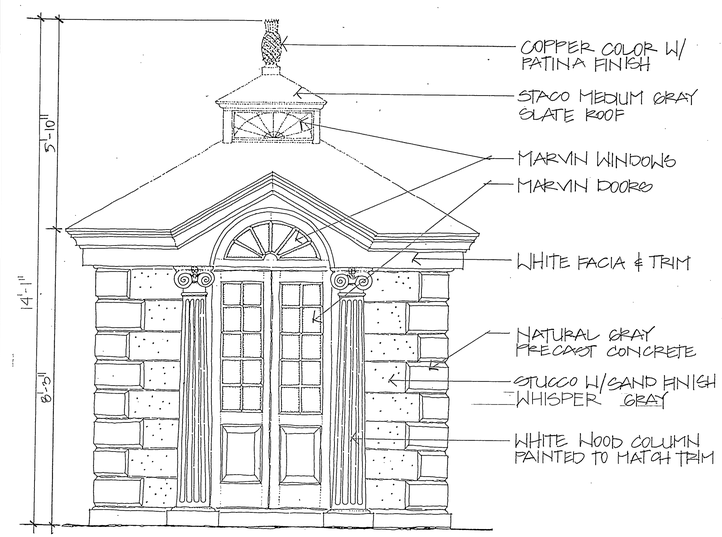
NOTE:
1. SOILS ENGINEER TO INSPECT AND APPROVE SUB-BASE PRIOR TO CONC. POUR
2. POUR 10 S.F. SAMPLE FOR APPROVAL OF COLOR & DEPTH OF IMPRESSION BY LAND. ARCH. (SEE CONCRETE NOTES)
3. CONC. STRENGTH, SUB BASE PREP ETC. AS PER STRUCTURAL SOILS INVESTIGATION
4. ALSO SEE CONCRETE NOTES, SHEET L-1, L-2 L-3 FOR PATTERNS, COLORS.

9 STAMPED CONCRETE PAVING ENTRY DRIVE & MEDIAN
SCALE: 1/2" = 1'-0"
SECTION



* NOTE: RESERVOIR GATE TO HAVE STEEL OPAQUE SCREEN ON BACK SIDE OF GATE.

12 ENTRY GATES
SCALE: 3/8" = 1'-0"
ELEVATION



10 GUARD HOUSE
SCALE: 1/2" = 1'-0"
ELEVATION

REGISTERED LANDSCAPE ARCHITECT
ROGER G. BECK LICENSE NO. 2771
Signature
Date
STATE OF CALIFORNIA

LAND DESIGN STUDIO
LANDSCAPE ARCHITECTS
ROGER G. BECK PRESIDENT
33666 PEQUITO DRIVE DANA POINT, CA 92629
(714) 496-1754

SIGNATURE BLOCK

PARKS & REC. 10-21-92	N/A ELECTRIC
WATER 8/3/92	PLANNING 9/20/92

MARK	REVISIONS	APPR.	DATE

DESIGNED BY ____ DRAWN BY ____ CHECKED BY ____

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	11/10/92	
PARK DEPARTMENT	10-21-92	
TRAFFIC DIVISION	—	—
CHIEF P. W. ENGINEER	11/16/92	
	11/17/92	

APPROVED BY
PUBLIC WORKS DIRECTOR
DATE 11/18/92

REVERSE FRONTAGE AND MEDIAN LANDSCAPE PLAN

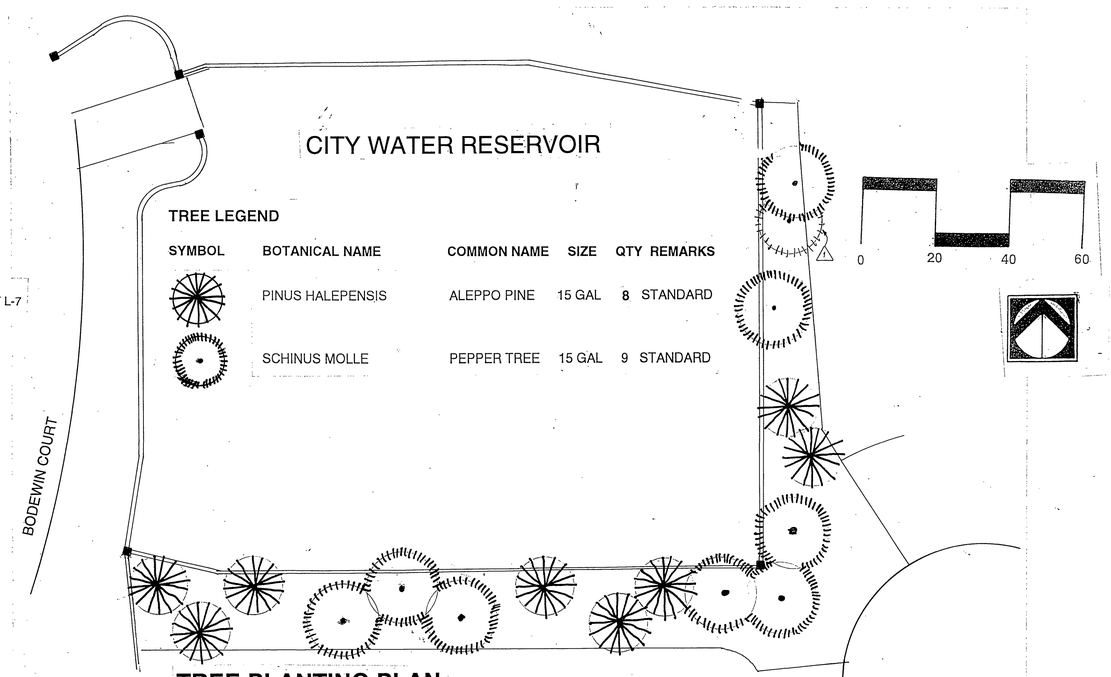
CONSTRUCTION DETAILS

HORIZ. SCALE: 1" =
VERT. SCALE: 1" =

ACCOUNT NO.
R3268L
L19
SHEET 20 OF 21

PC 3425-R/M

DR-64-912 INDEXED 1-8-97 GH

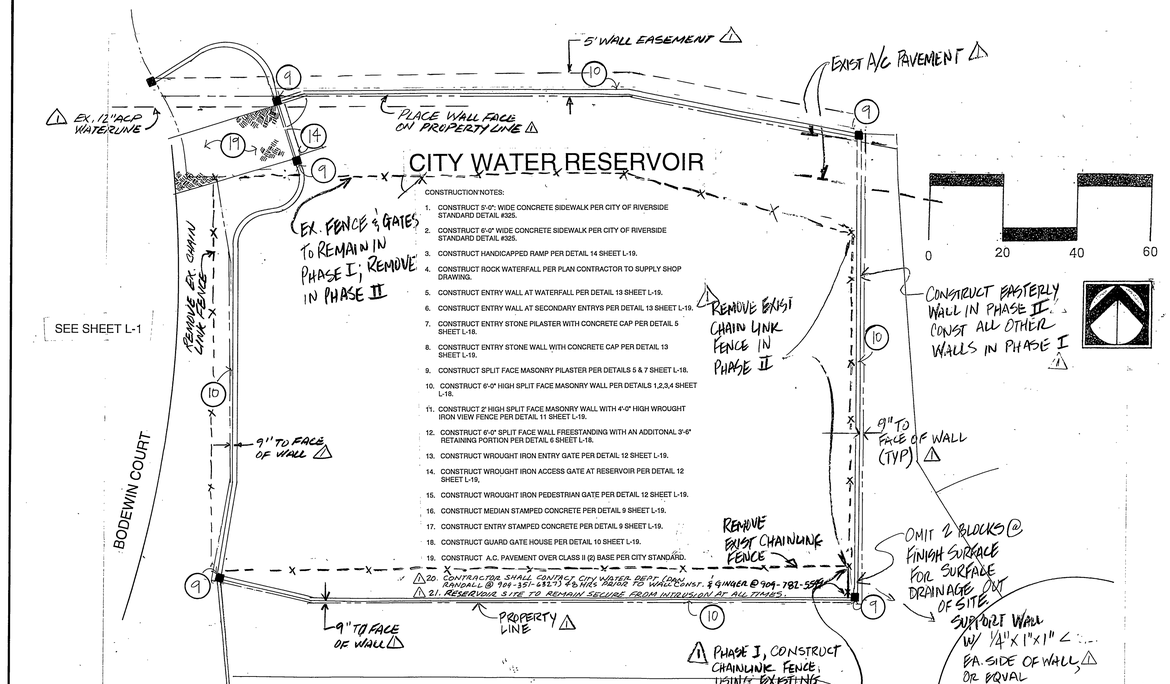


SEE SHEET L-7

TREE LEGEND

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QTY	REMARKS
	PINUS HALEPENSIS	ALEPPO PINE	15 GAL	8	STANDARD
	SCHINUS MOLLE	PEPPER TREE	15 GAL	9	STANDARD

TREE PLANTING PLAN

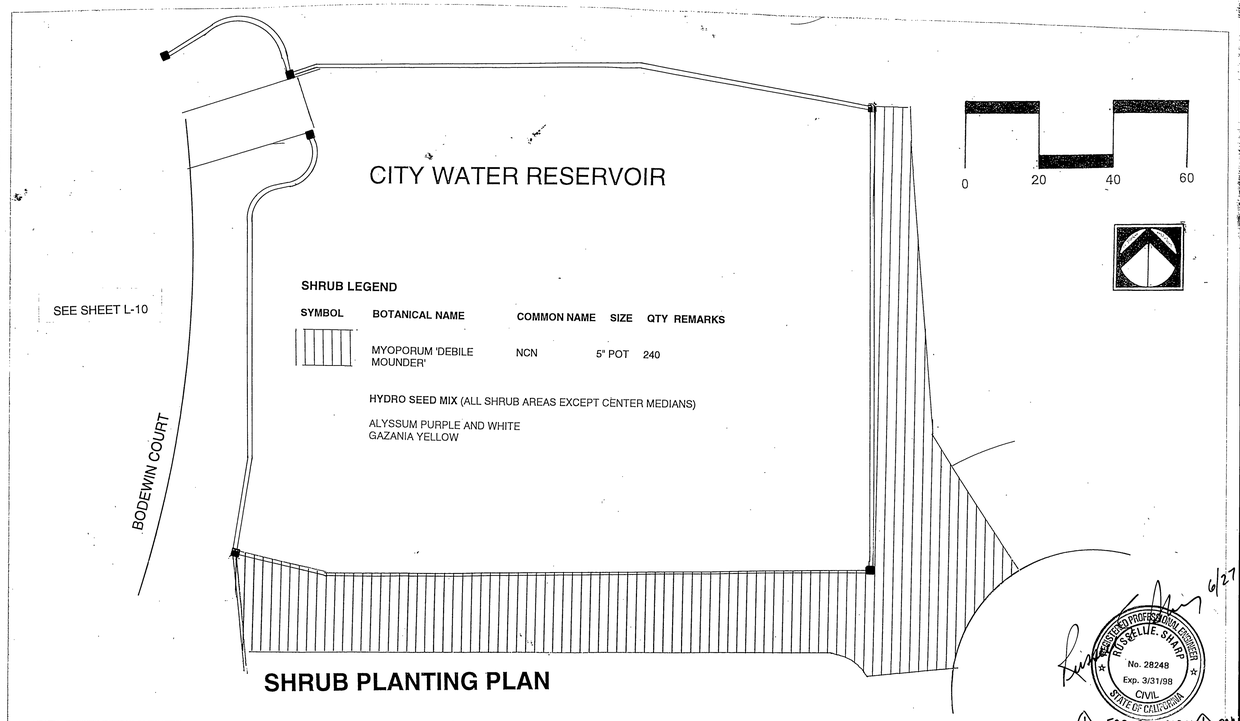


SEE SHEET L-1

CONSTRUCTION NOTES:

1. CONSTRUCT 5'-0"; WIDE CONCRETE SIDEWALK PER CITY OF RIVERSIDE STANDARD DETAIL #925.
2. CONSTRUCT 6'-0" WIDE CONCRETE SIDEWALK PER CITY OF RIVERSIDE STANDARD DETAIL #925.
3. CONSTRUCT HANDICAPPED RAMP PER DETAIL 14 SHEET L-19.
4. CONSTRUCT ROCK WATERFALL PER PLAN CONTRACTOR TO SUPPLY SHOP DRAWING.
5. CONSTRUCT ENTRY WALL AT WATERFALL PER DETAIL 13 SHEET L-19.
6. CONSTRUCT ENTRY WALL AT SECONDARY ENTRYS PER DETAIL 13 SHEET L-19.
7. CONSTRUCT ENTRY STONE PILASTER WITH CONCRETE CAP PER DETAIL 5 SHEET L-18.
8. CONSTRUCT ENTRY STONE WALL WITH CONCRETE CAP PER DETAIL 13 SHEET L-19.
9. CONSTRUCT SPLIT FACE MASONRY PILASTER PER DETAILS 5 & 7 SHEET L-18.
10. CONSTRUCT 6'-0" HIGH SPLIT FACE MASONRY WALL PER DETAILS 1,2,3,4 SHEET L-18.
11. CONSTRUCT 2' HIGH SPLIT FACE MASONRY WALL WITH 4'-0" HIGH WROUGHT IRON VIEW FENCE PER DETAIL 11 SHEET L-19.
12. CONSTRUCT 6'-0" SPLIT FACE WALL FREESTANDING WITH AN ADDITONAL 3'-6" RETAINING PORTION PER DETAIL 6 SHEET L-18.
13. CONSTRUCT WROUGHT IRON ENTRY GATE PER DETAIL 12 SHEET L-19.
14. CONSTRUCT WROUGHT IRON ACCESS GATE AT RESERVOIR PER DETAIL 12 SHEET L-19.
15. CONSTRUCT WROUGHT IRON PEDESTRIAN GATE PER DETAIL 12 SHEET L-19.
16. CONSTRUCT MEDIAN STAMPED CONCRETE PER DETAIL 9 SHEET L-19.
17. CONSTRUCT ENTRY STAMPED CONCRETE PER DETAIL 9 SHEET L-19.
18. CONSTRUCT GUARD GATE HOUSE PER DETAIL 10 SHEET L-19.
19. CONSTRUCT A.C. PAVEMENT OVER CLASS II (2) BASE PER CITY STANDARD.
20. CONTRACTOR SHALL CONTACT CITY WATER DEPT. CORY RANDALL @ 909-351-6223 & NICK WATER TO WALL CONST. & GINGER @ 909-782-5590
21. RESERVOIR SITE TO REMAIN SECURE FROM INTRUSION AT ALL TIMES.

CONSTRUCTION PLAN



SEE SHEET L-10

SHRUB LEGEND

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QTY	REMARKS
	MYOPORUM 'DEBILE MOUNDER'	NCN	5" POT	240	

HYDRO SEED MIX (ALL SHRUB AREAS EXCEPT CENTER MEDIANS)

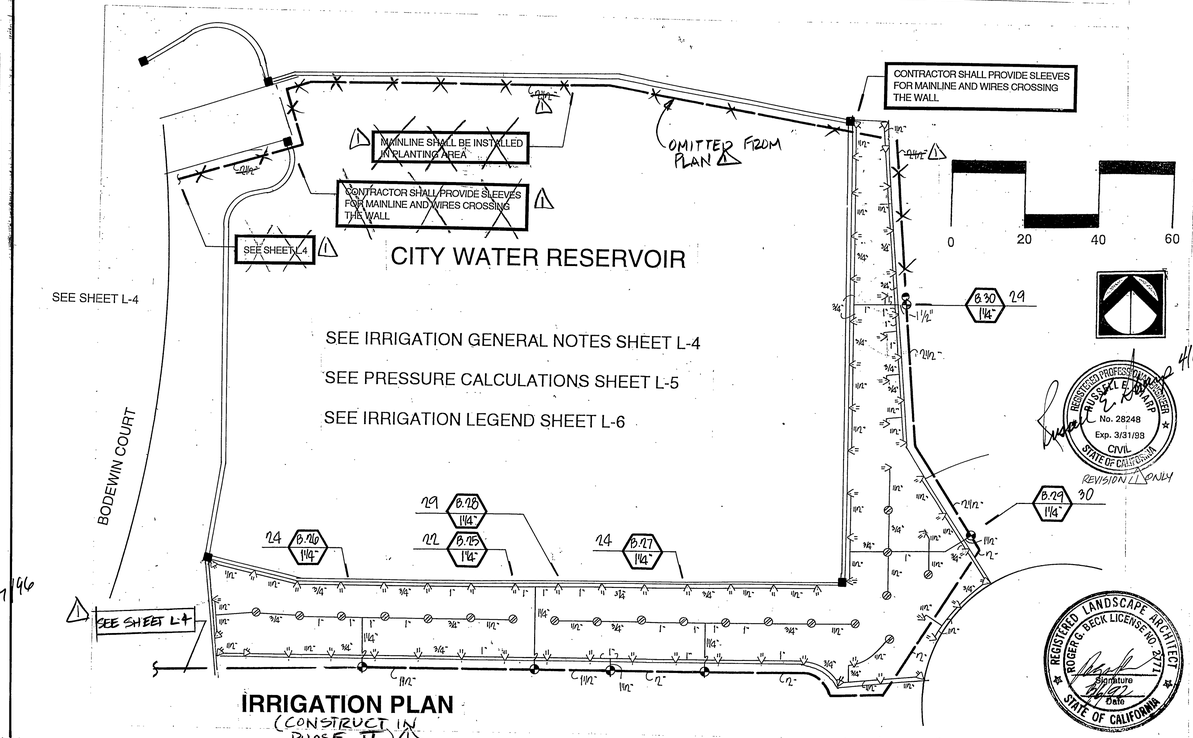
ALYSSUM PURPLE AND WHITE
GAZANIA YELLOW

SHRUB PLANTING PLAN

REGISTERED PROFESSIONAL ENGINEER RUSSELL E. SHARP No. 28248 Exp. 3/31/98 CIVIL STATE OF CALIFORNIA

6/27/96

FOR REVISION ONLY



SEE SHEET L-4

REGISTERED PROFESSIONAL ENGINEER RUSSELL E. SHARP No. 28248 Exp. 3/31/98 CIVIL STATE OF CALIFORNIA

4/10/96

REVISION 1 ONLY

REGISTERED LANDSCAPE ARCHITECT ROGER G. BECK LICENSE NO. 2271 Signature Date STATE OF CALIFORNIA

IRRIGATION PLAN
(CONSTRUCT IN PHASE II)

LAND DESIGN STUDIO
LANDSCAPE ARCHITECTS
ROGER G. BECK PRESIDENT
33666 PEQUITO DRIVE DANA POINT, CA 92629
(714) 496-1754

SIGNATURE BLOCK

PARKS & REC. 10-21-92	N/A ELECTRIC
R.S. Dalke 8/7/96 WATER	9/23/92 PLANNING

MARK	REVISIONS	APPR.	DATE
1	REVISE RESERVOIR AREAS	RES	4/10/96

DESIGNED BY ____ DRAWN BY ____ CHECKED BY ____

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	11/18/92	SD
PARK DEPARTMENT	10-21-92	[illegible]
TRAFFIC DIVISION	—	—
CHIEF P. W. ENGINEER	11/18/92	[illegible]
	11/19/92	[illegible]

APPROVED BY [illegible]
PUBLIC WORKS DIRECTOR
DATE 11/18/92

REVERSE FRONTAGE AND MEDIAN LANDSCAPE PLAN

RESERVOIR PLANS

HORIZ. SCALE: 1" = 20'-0" VERT. SCALE: 1" =

ACCOUNT NO. R3268L L20

SHEET 21 OF 21

PC 3425-R/M

DR-64-912 INDEXED 1-8-97 [illegible]